

Vol. 60  
No. 6

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# AMERICAN FRUIT GROWER



JUNE

DIRECTORY ISSUE

1940

# THE HIGH SPEED KILLER THAT SOLVES THE RESIDUE PROBLEM



## A NEW-TYPE CODLING MOTH INSECTICIDE -- N

**GENICIDE** is an absolute departure from other presently used spray materials such as arsenicals, nicotine, fluorine, etc. It is revolutionary in its development and in its performance.

**GENICIDE** is the highly important answer to the two-fold codling moth and spray residue problem. To find a spray material that would adequately solve this problem, the insecticide industry, and scores of experimenters as well, have been striving for many years. **GENICIDE** is the direct result of long and exhaustive research conducted exclusively, by the laboratory and field organization of the General Chemical Company. It represents one of the most significant and successful research programs ever conducted on an insecticide.

To the commercial apple grower, **GENICIDE** is a most important development in the field of insecticides. It is non-toxic to humans and, therefore, is the long-looked-for solution to the spray residue problem. At the same time, **GENICIDE** excels all other codling moth sprays in killing speed and in all-around spray protection . . . and yet it is safe for the trees.

### SOLVES THE RESIDUE PROBLEM

**GENICIDE** reduces the residue removal problem to simple brushing or non-injurious washing. This means that when the **GENICIDE** spray schedule is followed, the cleaning of the fruit *will be for appearance only!*

The commercial fruit grower will recognize the advantages of this easy residue removal, which does not interfere with the protective natural wax coating of the apple, or with its keeping properties.

### UNEQUALLED CODLING MOTH CONTROL

**GENICIDE'S** ability to kill codling moth larvae with unequalled speed means that not only are worm entries brought down to a new low point, but the percentage of stings is reduced to the lowest level yet realized. The

**GENICIDE** spray schedule provides this high control efficiency and, in addition, is safe for the tree. It will not interfere with either the natural leaf activity, or the color or finish of the fruit. These exclusive **GENICIDE** advantages have the effect of increasing the percentage of premium grades and the total orchard yield.

### 4 YEARS OF ORCHARD TESTING IN PRINCIPAL PRODUCING AREAS UNDER SEVERE INSECT CONDITIONS PROVE GENICIDE'S ADVANTAGES

#### TESTED AGAINST LEAD ARSENATE AND OTHER APPLE SPRAY COMBINATIONS:

**LEAD ARSENATE-OIL COMBINATIONS:** When **GENICIDE**, together with an adhesive, was tested against the combination of lead arsenate and summer oil, also against the various lead-oil combinations used in the Pacific Northwest, the result was a substantially greater yield of clean fruit with a marked reduction in stung fruit in favor of the **GENICIDE** schedule.

*The **GENICIDE** spray residue was easily removed, whereas the lead-oil residue necessitated a complicated washing program to meet the tolerance.*

**FLUORINE COMPOUNDS:** When **GENICIDE**, together with an adhesive, was tested against fluorine spray combinations, the **GENICIDE** spray schedule resulted in yields of premium grade fruit far in excess of the fluorine spray schedules. The fluorine spray residue at harvest necessitated complicated dual washing programs, whereas the **GENICIDE** residue was easily removed.

**NICOTINE-BENTONITE-OIL COMBINATIONS:** The various nicotine-bentonite-oil combinations used in the tests fell far short of the **GENICIDE** schedule in the "pack-out" of clean fruit. In fact, the market value of the **GENICIDE**-sprayed fruit was so much greater than that

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# Orchard Brand Again Sets The Pace *with* Improved

# GENICIDE

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DE • **NON-TOXIC TO HUMANS... SAFE FOR TREES**

sprayed with the nicotine-bentonite-oil combinations *as to effect a substantial economy in favor of GENICIDE.*

NOTE: Tests were based on the various spray combinations being applied in direct comparison under identical orchard conditions, such as location, variety, timeliness, etc.

## **COST COMPARISON OF GENICIDE SPRAY SCHEDULE VS. LEAD ARSENATE-OIL COMBINATIONS**

The **GENICIDE** spray schedule may be compared in cost with the commonly used lead arsenate-oil combinations, taking into consideration the following important **GENICIDE** spray advantages.

- 1—Solves the residue problem.
- 2—Higher yields of premium grades.
- 3—Higher market returns due to increased top grade fruit.
- 4—Maintains vigor of trees which increases yields.
- 5—Simplifies handling of crop due to reduction in percentage of culls.
- 6—Does not interfere with soil productiveness or growing of cover crops.

## **COST COMPARISON OF GENICIDE SPRAY SCHEDULE VS. NICOTINE-BENTONITE-OIL COMBINATIONS**

The **GENICIDE** spray schedule is *more* economical than nicotine-bentonite-oil spray mixtures, due to the following **GENICIDE** advantages:

- 1—**GENICIDE**, since it is used in the same stages as lead arsenate or lead arsenate-oil, does not call for any additional applications. On the basis of the same comparison, the nicotine-bentonite-oil spray schedule requires at least one, and probably two, additional applications.
- 2—The higher yields of premium grades resulting from the **GENICIDE** spray schedule *establishes an important cost advantage in its favor.*

## **GENERAL CHEMICAL COMPANY**

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## **8 IMPORTANT GENICIDE ADVANTAGES TO THE APPLE GROWER**

- 1—Non-toxic to humans and safe for the trees.
- 2—Solves the residue problem and makes expensive, complicated washing programs unnecessary.
- 3—Maintains the vigor of trees which increases yields.
- 4—Steps up the market value of the crop by substantial increases in the percentage of *clean* fruit and premium grades.
- 5—Simplifies handling of crop due to reduction in percentage of culls.
- 6—Enables grower to clean fruit right on his own property.
- 7—Does not interfere with soil productiveness or growing of cover crops.
- 8—Not objectionable to workmen.

**GENICIDE** does not contain Arsenic • Lead • Fluorine  
Nicotine • Pyrethrum • Rotenone

**GENICIDE IS AN ENTIRELY NEW INSECTICIDE WITH NEW CONTROL EFFICIENCY!**



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You'll take more pride . . . more comfort  
 . . . more pleasure . . . in owning  
**"THE LONGEST OF THE LOT"**



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**THE VERY LONGEST OF ALL LOWEST-PRICED CARS**

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**Try it..**  
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 Other models slightly higher

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*Transportation based  
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 and local taxes (if  
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**"CHEVROLET'S *First Again!*"**

JUNE

1940

No. 6

# AMERICAN FRUIT GROWER

The  
NATIONAL FRUIT MAGAZINE

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### AMERICAN FRUIT GROWER

Published Monthly by  
AMERICAN FRUIT GROWER PUBLISHING CO.  
1370 Ontario St., Cleveland, O.

E. G. K. MEISTER

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BRANCH OFFICES—NEW YORK CITY, Room 1212,  
30 Rockefeller Plaza. Phone—Circle 7-1863.

REPRESENTATIVES—J. C. BILLINGSLEA CO., 123  
W. Madison St., Chicago, Ill. Phone—Central  
1245.

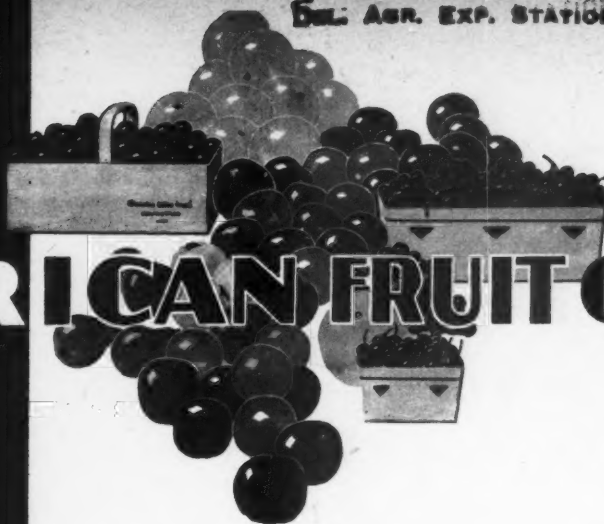
#### SUBSCRIPTION RATES

Domestic Except Cleveland, 3 years \$1.00, 1 yr. 50c.  
Cleveland and foreign (except Canada) \$1.00 per  
year. Canada, 50c per year.  
Single Copy, 10 Cents.

Entered as second-class matter at Post Office at  
Cleveland, Ohio, under the Act of March 3, 1879.  
Additional entry at Mount Morris, Illinois.

PRINTED  
IN U.S.A.

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## Lloyd C. Stark, Governor and Fruit Grower

ON page seven of this issue AMERICAN FRUIT GROWER is privileged to present an article written especially for this magazine by Governor Lloyd Crow Stark of Missouri in which he discusses recent developments in the trade barriers fight as it affects the fruit industry.

This article and the interstate problem it discusses is of the utmost importance to the fruit industry. The tremendous growth of the fruit industry in this country was made possible by "free trade." And free trade is still vital to the continuing growth of the industry. Nobody is in a better position to know and understand this than Lloyd Stark, since he himself is one of the country's foremost fruit growers.

Governor Stark had been head of the world's largest nursery nearly a quarter of a century when he sought and obtained his first public office.

During his management of the nurseries, Lloyd Stark also served as president of the American Association of Nurserymen and of the Mississippi Apple Growers' Association.

Immediately after his election as Governor of Missouri in 1936, Lloyd Stark launched a two-fronted attack on the corrupt Pendergast machine of Kansas City which has focused nationwide attention upon the Missouri chief executive.

Staunch American that he is, Lloyd Stark also attained national recognition in another field when he assumed the leadership in the battle to eliminate interstate trade barriers. In fact, it was his forceful leadership in the campaign to free American agriculture and industry from the burden of interstate trade barriers that was largely responsible for his election as president of the Council of State Governments. He was also chosen by his fellow governors to be chairman of the Governors' Conference of the United States during the past year.

Lloyd Stark has the unique distinction of having served as an officer in both the Navy and Army, having graduated from Annapolis and later commanded an artillery battalion and regiment in France, with the rank of major.

The Missouri chief executive finds time from his strenuous official duties to give his personal attention to three farms which he owns and operates in northern Missouri. Guests at the historic old Governor's Mansion in Jefferson City, overlooking the Missouri River, frequently are the first to sample new and delicious varieties of apples, peaches, plums and other fruit developed in the Stark Nurseries or in the governor's private orchards.

Despite the national attention given his successful victory over the Pendergast machine and the trade barriers fight, Governor Stark takes most pride in having given Missouri a businesslike administration and in bringing the benefits of an ambitious public health program and social security measures into the rural areas of his home State.

Many eastern commentators look on the Missouri chief executive as potential presidential timber and it is not beyond the realm of possibilities that the Missouri nurseryman should be called upon to prune the dead wood from the national economic tree with the same forceful administrative methods he has applied in Missouri.

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# CUT COSTS with the New TD-6



## Smallest DIESEL TracTractor Ever Built by International Harvester

The new International TD-6 has everything—snappy performance and appearance, balanced power and weight, and a *full*-Diesel engine. This compact model with a heavy-weight wallop is an easy tractor to operate. It is comfortable. Control levers and pedals are conveniently located. The engine is easy to start.

Cut your power costs with the International TD-6. See the International Harvester dealer or nearest branch for information about the complete TracTractor line.

**INTERNATIONAL HARVESTER COMPANY**  
(Incorporated)

180 North Michigan Avenue

Chicago, Illinois

Here they are—the new DIESEL TracTractors. Left to right: TD-4, TD-9, TD-14, TD-18.





This fruit trucker was halted when he reached a state line during a motor-vehicle tax dispute between eastern states.

Acme

# THE FRUIT INDUSTRY AND TRADE BARRIERS

By  
Governor Lloyd C. Stark  
of Missouri

**AS** a business man, operating a nursery which specializes in fruit tree stock, I first became interested in the problem of Interstate Trade Barriers as they affect that particular business. As a public official, I have actively led the fight against these barriers in the interest of all forms of agriculture and horticulture, of industry and of the consuming public.

No one has any quarrel with necessary inspection fees or quarantine regulations which actually protect our industry from the spread of plant diseases. It is only when these fees are set up primarily to enhance the state's income, or the regulations are designed to exclude from competition worthy products from outside the state, that we recognize them as interstate trade barriers.

Many misconstructions have been put on the efforts of the Council of State Governments, of which I have the honor to be president, to eliminate interstate trade barriers. The idea has been fostered that we seek to prevent a state from setting up standards necessary to protect the health of its people. That is not true.

Nor is it true that the movement

is aimed at eliminating all regulation of trucking interests. My own firm has made a practice of shipping exclusively by rail; I would hardly identify myself with a movement to harm the railroads. Of course, we have advocated doing away with ports of entry. It is simply the wrong remedy for the ills of rail transportation, and it is a definitely un-American practice.

Europe today is aflame with war. Here in this peace-loving but firm-willed nation, we are determined to remain aloof from foreign conflicts. But no one can longer argue that we dare put off a program of adequate national preparedness; that we can afford to tolerate anything which tends toward national disunity.

What could be more conducive to promoting internal dissension than tariff walls built along state lines, boundary lines dividing our great nation into 48 little economic units?

We call this process the "Balkanization" of America, for if carried to the ultimate extreme it would create a picture not unlike that of the perpetually restless and warlike little kingdoms of Europe.

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AMERICAN FRUIT GROWER

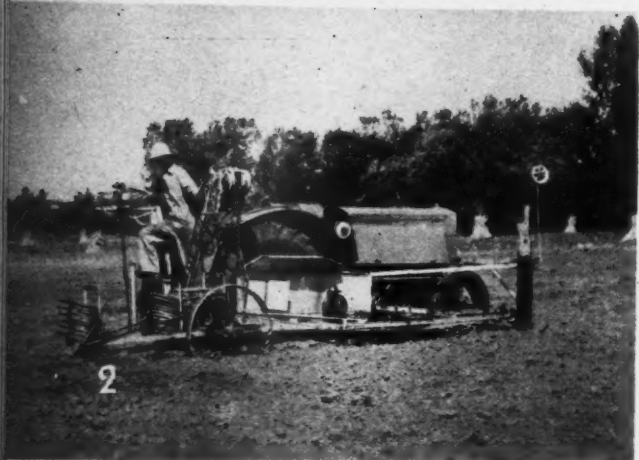


Lloyd C. Stark  
Governor of Missouri

# FRUIT FARM WORK R U B



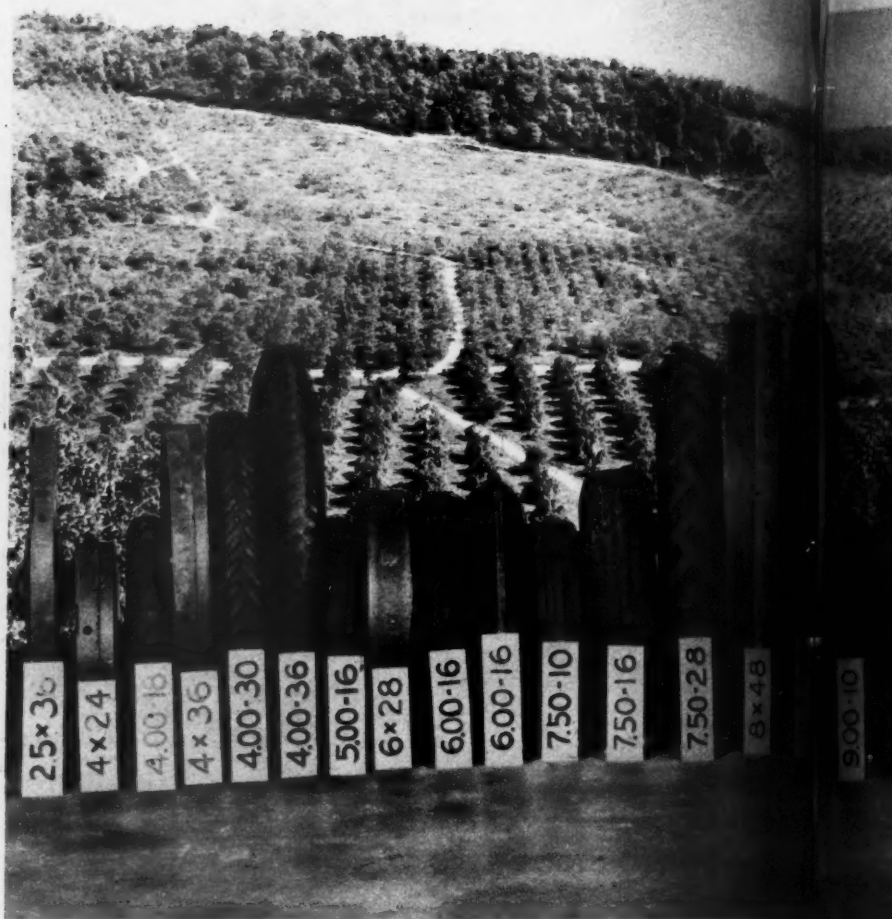
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## STUDIES OF PNEUMATIC TIRES VS. STEEL WHEELS SHOW

By DEAN HALLIDAY

**W**HEN the wheel was invented some 4,000 years ago it literally revolutionized man's labor in the fields.

When, in recent years, the pneumatic rubber tire began replacing steel on the wheels of farm equipment it also literally revolutionized work on the farm.

In the case of the fruit farm the introduction of rubber tires has not only made orchard operations roll easier, but it is actually leading to a mechanization and modernization of the fruit farm that was scarcely dreamed of less than a score of years ago.

Scientific studies of rubber versus steel on the wheels of agriculture have

been undertaken only comparatively recently, but already such studies show the following definite advantages when pneumatic tires are used:

Greater speeds possible, both for tractors and implements.

Reduction of rolling resistance by almost half.

Longer life for the machines, the result of cushioning against the wear and tear of vibration.

Greater drawbar pull and less fuel consumption.

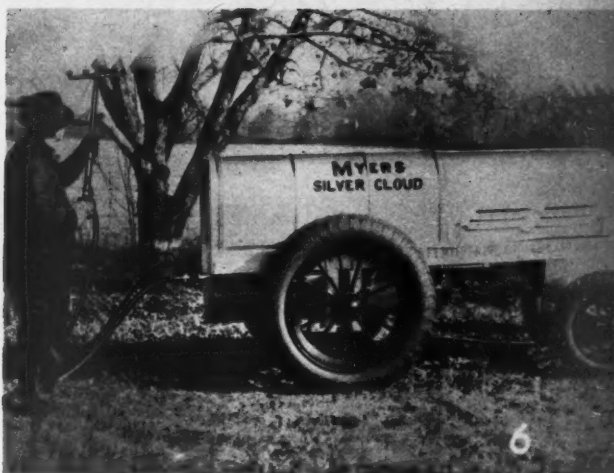
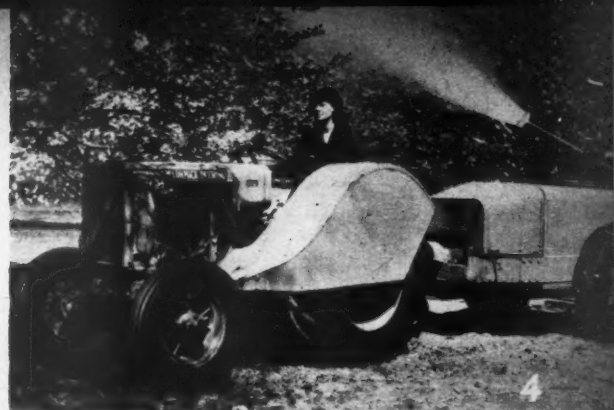
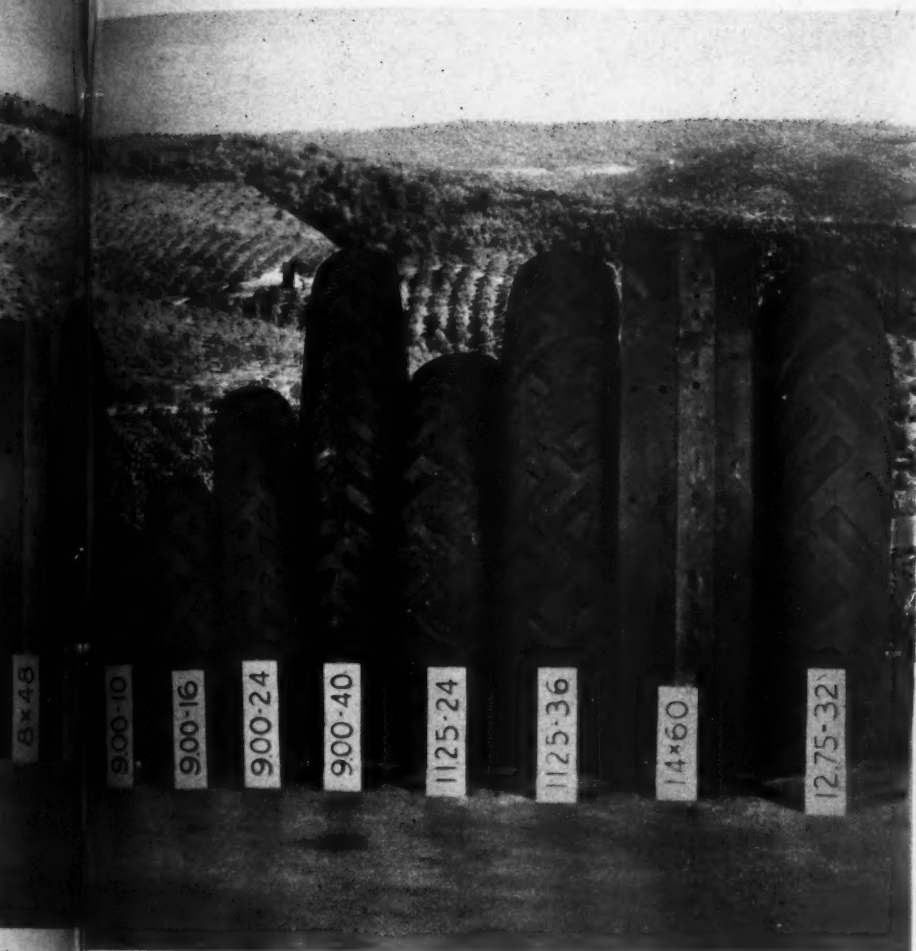
Rubber has proved to be a prime first aid for the fruit farmer because so many of his operations must be done against a time schedule regardless of field conditions and weather. Speed of operation often means the difference between profit and loss.

During the winter and in early

spring the fruit grower must be "on the land"—and working—no matter how rough, soggy or slippery the soil. Heavily loaded spray tanks must be hauled up hill and down dale, for orchards quite generally are planted on hill slopes. Modern tractors have the power to haul such deadweight loads, the heaviest encountered in any type of farming. And rubber tires, so the engineers find, on the wheels of a sprayer or other heavy equipment, reduce rolling resistance to such an extent that the hauling actually becomes comparatively easy even over land so soft and muddy that steel wheels would bog down in it.

At Ames, Iowa, Eugene G. McKibben, associate professor of agricultural engineering, and J. Brownlee Davidson, professor and head of the

# RUBBER ROLLS EASIER ON B E R



## SHOW FORMER REDUCE RESISTANCE BY ALMOST HALF

Department of Agricultural Engineering, Iowa State College, recently determined to find out if rubber-tired wheels on agricultural machines actually do roll easier than steel wheels.

In making their studies they put 23 wheels through a series of rolling resistance tests. Six of these wheels, as illustrated above, were steel and 17 were pneumatic tires. The wheels varied in width and diameter from 25x36 inches to 12.75-32 inches. The wheels were tested at several loads under four operating conditions, including concrete, bluegrass pasture, tilled loam and loose said.

The tests revealed a number of things to Doctors McKibben and Davidson which have to do with coefficients of rolling resistance, com-

(Continued on page 11)

The center picture shows the 23 wheels, six steel and 17 pneumatic, arranged according to increasing width and diameter, which were used in the tests made at Iowa State College. For the steel wheels the size varied from 4x24 to 14x60 inches and for the pneumatic tires, from 4.00-18 to 12.75-32 inches. The recent experiments made at Ames, Iowa, proved that rubber tires on farm equipment wheels moving over plowed fields reduced rolling resistance by 46 per cent.

All wheels were tested at several loads under four operating conditions, namely, concrete, bluegrass pasture, tilled loam, sand. Illustration No. 1 shows test in bluegrass pasture.

Illustration No. 2 shows the wheel tests being made in loose sand. These tests revealed that increasing the inflation pressure of pneumatic tires lowers the rolling resistance on concrete and increases the resistance in loose sand.

Tests in tilled loam, illustration No. 3, showed pneumatic tires to be relatively most effective on rough surfaces or soil where the supporting strength of the soil approached the inflation pressure of the tire, such as would be encountered on a field road across fall plowing.

Fruit farm equipment with pneumatic tires in proper sizes for meeting load and road conditions, illustration No. 4. Rubber tires make handling easy enough for a woman driver.

Spraying must be done irrespective of field conditions. As shown in illustration No. 5, spray tanks must move up hill and down dale no matter how slippery the going. Rubber tires move equipment easily over such terrain.

On pasture-like surfaces as shown in illustration No. 6, pneumatic tires on heavily loaded spray tanks reduce rolling resistance to such a degree that spraying operations can be speeded up and yet show a highly economical consumption of motor fuel for transport.

# THE FRUIT INDUSTRY AND TRADE BARRIERS

That we do not want in these United States of America.

An equally important reason for the concerted attack on interstate trade barriers now under way by state and Federal governments is the fact that these obstacles to free trade between the states block the pathway to national prosperity.

Our nation prospered and grew great as the largest free trade area in the world. Under the stress of the depression years, now happily past, selfish interests in every part of the nation began setting up little tariff laws—to call them by their true name—with a view to gaining some unfair advantage for local growers, producers or manufacturers by shutting off the market to competition from outside the state.

One thing was overlooked. The states which were thus excluded did not take their punishment lying down. They retaliated by clamping down on products from the offending state; by closing off their own markets. Thus the vicious circle grew.

Fortunately, the interstate trade barrier menace is well on the way to being conquered. The lawmakers of our states have seen the light, as public opinion became aroused against such shortsighted internal economic warfare. The trend now is toward repeal of such laws as remain on the statute books.

As I said in the beginning, there is no objection to needful regulation of fruit or fruit trees entering a state. Only too often it takes the form of double regulation. Everyone wants to collect from the fruit grower, perhaps the most victimized object of interstate trade barriers.

Out of my own personal knowledge, I want to cite an experience which shows how a little common sense and tactful discussion paves the way for relieving producers of the burden of double taxation.

About a year and a half ago, Missouri State Entomologist Carl Dawson and Chief Inspector Paul H. Millar of Arkansas sat down to breakfast in a town near the border between the two states for a little conference. The subject under discussion was dual taxation of nursery stock.

Mr. Dawson and Mr. Millar, each man loyal to the interests of his own

State, studied the situation seriously. Finally they arrived at the same conclusion. The horticultural interests of Arkansas and Missouri were one and the same.

These two plant pest control officials drafted and adopted a far-reaching "Memorandum of Agreement" that solved and dissipated the two-state nursery stock problems. This "Memorandum of Agreement" was duly signed and sealed, fully approved by the Arkansas State Plant Board and Jewell Mayes, commissioner of agriculture of Missouri, establishing what is now very properly called "The Good Neighbor Policy in Plant Pest Control."

This Missouri-Arkansas "Good Neighbor Policy" may well serve as a working model for other states to use as a basis for meeting around the council table to study and solve local and interstate problems.

The Missouri-Arkansas agreement of 1938, which has worked to the mutual benefit of business interests of the two states, provides for the method of field inspection, method and time of heelyard and packingshed inspections, and the abolishment of fees between the two states.

It established a new principle of preventing the artificial dissemination of insect pests and plant disease across state lines.

For example, if infested plant material is found in Arkansas of Missouri origin, specimen of the pest involved and a full report of the situation is sent to Missouri, and the shipment held up and treated or returned to point of origin. The source of the infested plants in Missouri is then promptly checked and appropriate steps taken to prevent further movement of the plant material until the pests have been eliminated.

As a practical business man, as a nurseryman long experienced in the problems of trade barriers between the states, I am happy to commend the sound common sense demonstrated by the officials of the State of Arkansas and my home State of Missouri, because this is a long and powerful step promptly taken in the breaking down of trade barriers without having to go to the trouble of securing state government legislation, thus avoiding long delay.

This course has an ancient precedent in our national life. It follows

the good old Quaker doctrine of using the council table instead of cannons to solve mutual problems.

Dr. Frederick V. Waugh of the Bureau of Agricultural Economics, U.S.D.A., in his 104-page "Special Report on Barriers to Internal Trade in Farm Products," issued in March, 1939, cites how trade barriers hamper the orderly marketing of fruit and vegetable crops through shortsighted state laws and city ordinances that penalize trucks at state lines, setting up arbitrary weight limits, enforcing local motor license penalties for out-of-state trucks, and, worst of all the truck grievances, the port-of-entry law.

Dr. Waugh also cites the trade barriers resultant from the hindrances of the worst types of the so-called merchant-trucker or "itinerant-merchant" laws, that have haunted the legislatures of many states during the past six years. The more vicious of the itinerant-trucker laws handicap the outside dealer, reducing the range of traffic in fruits and vegetables, giving preference to the products of local producers, such legislation usually being in the holy name of the public health and safety.

The "Grades, Standards and Labeling" of fruits and vegetables going into intrastate and interstate commerce have as their worthy goal the improvement of the quality and the advancement of the uniformity of size and kind. But a study of the laws and regulations of the forty-eight states today, as submitted by Dr. A. H. Martin, Jr., Charlotte A. Hankin and Dr. C. Chesterfield Oppenheim, in the "Comparative Charts of State Statutes Illustrating Barriers to Trade Between States," illustrates the sad lack of uniformity of grades, standards and labeling requirements by all of our several states, thus bringing about a babel of regulations, harmful to our growers, hampering orderly marketing and adding to the costs to the ultimate consumer.

In the distribution of many fruits and vegetables, uniform labeling requirements, designed to protect the buyer from misrepresentation, may well be justified in the light of such known abuses as plug-packing, over-facing, and slack-fills, costly to the honest growers and packers, the legitimate trade and the housewife. The "National Apple Planning Committee" recently adopted a resolution proposing uniform labeling legislation for the several states, and active progress is now being made in this direction.

There is no sound excuse for different states to set up different grades, standards and labels for the same product, a pitifully expensive burden upon the industry and the public. I plead for the uniformity

(Continued on page 12)

## RUBBER TIRES VERSUS STEEL WHEELS

(Continued from page 9)

pound curves and other extremely important engineering data.

The net of these experiments, however, from the standpoint of the fruit farmer who must do heavy hauling over his land under any and all conditions was that "the mean reduction in rolling resistance resulting from the use of pneumatic tires was 28 per cent . . ." and " . . . on rough surfaces or soil where the supporting strength of the soil approached the inflation pressure of the tire, such as a field road across fall plowing, they reduced the rolling resistance by 46 per cent."

Increased speeds and reduced rolling resistance made possible by rubber tires are important to the fruit grower, but so is the life expectancy of his various pieces of expensive equipment.

Here again rubber is a first aid. The vibration of steel-wheeled equipment wracks and soon wrecks it, or makes costly repairs necessary. Rubber tires applied to similar equipment smooth out much of the shake produced with steel wheels. Comparative vibration tests made in Indiana have proved this.

With rubber tires reducing vibration on farm machines, it is only reasonable to expect wear and tear to be reduced and the life of such equipment to be increased. In this connection, R. B. Gray, chief, Division of Mechanical Equipment, Bureau of Agricultural Engineering, U.S.D.A., is authority for the statement that some engineers claim that the life of rubber-tired farm equipment should be increased around 25 per cent over that of steel-tired equipment.

And, in order to get still further first-hand information, just ask the fruit farm hand who has had experience in operating both steel-wheeled and rubber-tired heavy equipment which one he thinks rides easier and which one he prefers.

The fruit grower, like any other farm operator, wants hauling power at the lowest possible cost in fuel consumption, and here again rubber tires come to his assistance. Tests reported to the American Society of Agricultural Engineers show that fuel consumption is five to 15 or 20 per cent less for tractors equipped with rubber tires than it is for those with steel wheels, depending upon conditions.

Gray points out that one large sprayer manufacturer, in co-operation with a state agricultural college, reports interesting draft test figures with a four-wheel sprayer weighing 6055 pounds loaded, using different sizes of pneumatic tires and different widths of steel tires under different soil conditions.

JUNE, 1940

## WHAT WOULD YOU CALL IT?

### \$10.00 FOR BEST STANDARD DESIGNATION OF NEW SPRAY TO STOP PRE-HARVEST DROP

Every fruit grower is vitally interested in the new hormone spray to reduce pre-harvest drop. The initial success of this spray indicates it may revolutionize certain aspects of fruit growing, as pointed out by Dr. F. E. Gardner in his article, "Hormone Sprays for the Pre-Harvest Apple Drop," in the May, 1940 issue of *AMERICAN FRUIT GROWER*.

Manufacturers are introducing this new spray under various trade names. That's good as far as it goes, but *AMERICAN FRUIT GROWER* believes a spray as epochal in character as this one promises to be, should have a standard designation, comprehensive enough to indicate the "what, when and why" of it.

We have, for example, the "calyx spray," therefore, should this new spray be known as a "stem spray," "spur spray," or "drop spray"? Some such term would make it easy for a grower to recognize it as a standard part of his spray program, no matter under what trade name he afterwards purchased the material.

What do you think of this suggestion, and what would you call the new spray? If you hit upon the right name *AMERICAN FRUIT GROWER* will pay you \$10.00, provided you are the first one to suggest it to us.

Send in your suggestion, without delay, to

Editorial Dept., *AMERICAN FRUIT GROWER*

1370 Ontario St., Cleveland, Ohio.

In cultivated loose sandy soil the draft was 1210 pounds when using steel wheels 28x5 (front) and 54x5 (rear). By increasing the width of the rear tires from five to eight inches, other sizes remaining the same, the draft was reduced to 975 pounds—a reduction of 235 pounds because of three-inch wider rims on the rear. By using pneumatics, 5.00—17 By using pneumatics, 5.00-17 (front) and 6.00-20 (rear), the draft was reduced to 750 pounds, and by changing the rear from 6.00-20 to 7.00-17, front tires remaining the same, the draft was reduced 20 pounds more, to 730 pounds.

Using the same wheel equipment on firm alfalfa sod, the steel wheels with five-inch face on rear gave 825 pounds draft and when increased in width to eight inches gave a 750-pound draft—a reduction of 75 pounds or 25 pounds per inch of extra width. By using pneumatics the draft was reduced to 485 pounds, the same for both sizes.

In selecting tires for sprayer service, Gray advises that the sprayer manufacturers' recommendations should be adhered to or those of the Tire and Rim Association which gives the tire and rim sizes, air pressures, etc., for safe loadings.

One large sprayer manufacturer, Gray states, reported that some 65 per cent of his sprayers were mounted on rubber tires in 1938, and that nearly 80 per cent were so mounted in 1939.

## CHANGING TO RUBBER

By B. A. JENNINGS

Cornell University

Steel wheels can be fitted with rubber tires by removing the steel tire and welding a drop center rim to the spokes of the steel wheel. Drop center rims are on the market purposely for this job.

The steel rim is removed by cutting off the spokes the correct length on a jig. The jig also holds the new rim in the correct position for welding.

Tire sizes are designated by two numbers. The first number indicates the cross section or width of the tire and the second indicates the diameter of the rim. For example, a 6.00-20 tire has a cross section or width of 6 inches and is for a 20-inch rim.

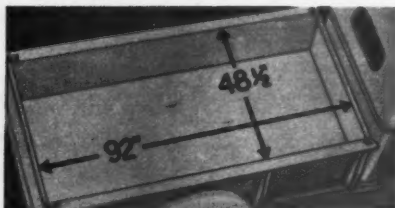
To determine the size of tire to use, take the diameter of the original wheel and subtract twice the cross section width of the tire to be used. The cross sectional width of the tire should be the same as the width of the steel wheel. For example, a steel wheel 42 inches high by 8 inches wide, should be equipped with a 7.50 or a 9.00 tire. If a 9.00 tire is used, multiply  $9 \times 2 = 18$  inches, and subtract this from the diameter of the wheel, as 42 inches — 18 = 24 inches for the rim size. Therefore, the tire size would be 9.00 by 24. If a steel wheel is 28 by 4 inches, a 5.50 by 16 rim and tire can be used.



# BIGGEST LOAD SPACE of any half-ton pick-up

Your local GMC dealer offers by far the widest truck selection in the industry. There are 4 GMC Pick-up models, for example, including the 123 $\frac{3}{4}$ "-wheelbase long-body truck illustrated. If you want a light pick-up truck with lots

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## THE FRUIT INDUSTRY AND TRADE BARRIERS

(Continued from page 10)

that can be brought about by the application of common sense through the "Good Neighbor Policy."

There is an excellent yardstick by which we may measure quarantines to determine whether they are trade barriers. It is known as the "National Plant Board Principles of Plant Quarantines." This document has done much to prevent and eliminate objectionable and unjustified plant quarantines.

A recent development in plant quarantine work has been the working out of treatments for plants and farm products, so that insect pests may be eliminated and the quarantined material move into protected areas. Foremost in this field has been the work of D. B. Mackie of the California State Department of Agriculture and Dr. Lon A. Hawkins of the Bureau of Entomology and Plant Quarantine, U.S.D.A. The two have explored the use of the new lethal gas, methyl bromide, so that now many farm crops are after fumigation moving into new markets from which they were previously embargoed by quarantine regulations.

The forward march of public opinion is already doing much to help to break down trade barriers, and to such a desirable end let us all turn our organized influence and efforts, enlisted until the ending of the war against economic balkanization.

In spite of the general forbiddance under the Federal Constitution, most of the state trade barriers have crawled under the gate through the "rights of the police power" or the right to levy taxes. When public sentiment is sufficiently crystallized, every barrier to the free flow of trade can and will be driven from the statute books.

When that day comes, we will know our feet once more are planted on solid ground as we carry on the fight for a united and prosperous nation.

## INSTITUTE OF CO-OPERATION MEETS JULY 8-12

Effects of the European war upon American agriculture, and steps that farm co-operatives must take to key their programs to the adjustments in agriculture occasioned by the war, will be major topics as the American Institute of Co-operation holds its 16th annual session at Michigan State College, East Lansing, July 8-12. Underlying themes of the 1940 institute will be "Fundamentals of Co-operation," and "Improving Co-operatives' Business Practices." More than 100 speakers will appear on the program during the five-day session.

# AMERICAN FRUIT GROWER

JUNE

1940

## BUYER'S GUIDE FOR THE FRUIT FARM

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# Approved- FROM MAINE TO CALIFORNIA

## CLETRAC MODEL HG

### The Lowest Priced Farm Crawler

Whether yours is an all-fruit farm or a combination operation of fruit and general farming, follow the experience of enthusiastic owners of Cletrac Model HG who have found this tractor, as one says, "The absolute answer to my prayer."

#### "Can't Say Enough About It"

Bill Bailard, Ventura, California, "Frankly, I do not see how any small fruit grower can pass it up and big growers with close planting have got to have it."

#### From Canada

Fred Pengilley, Ontario, Canada, with 60 acres, 22 in orchard, okays Model HG when he says, "It is the right size for any farm. My HG takes only about 3/4 of a gallon of fuel per hour."

#### And from Florida

"My Cletrac is a wonderful machine. It makes short turns; doesn't bog in low or wet spots nor in crossing ditches and working corners."

#### Makes Money Working for Others, too

"I think it is the *only* tractor for year around performance, economy in fuel and upkeep. I would have no other. I also do a great deal of work for others with my Cletrac HG."

George Lock, Lapeer, Michigan.

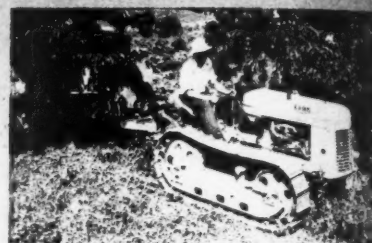
#### "Best on the Market"

"We work our Model HG 11 hours on 12 gallons of gas in plowing heavy clay soil. We think it is the best farm tractor on the market." Peterson Bros., Burgettstown, Pa.

#### "Stays Right Side Up"

"I like my model HG because of its fuel economy, pulling power and ability to stay right side up on hilly ground."

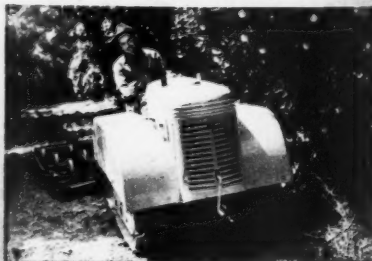
Geo. Desrochers, Passumpsic, Vt.



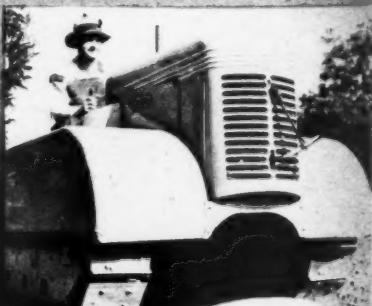
Sneak through big trees.



Low height and accurate steering permit working close and under.



Orchard fenders can be supplied as an extra.



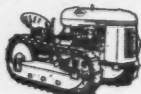
Streamlined design prevents damage to fruit or limbs.

**Cletrac**  
Crawler Tractors

**RIDE WITH POWER STEERING**  
Cletracs steer with power on both tracks at all times through Cletrac's exclusive controlled differential steering. You never fight a steering wheel with a Cletrac crawler and you do not have to remember to steer differently coming downhill as is necessary in all other makes of crawler tractors.

Cletrac Model H is the only *crawler* tractor in a price range comparable with a rubber tired wheel tractor. In fact, it delivers on most farms in the U.S. for just about \$1,000, not including state and local sales taxes. Three widths—31", 42" and 68" make Cletrac Model HG versatile enough for fruit culture and general farming as well. It is a tractor that is in a class by itself for all fruit growers and general farmers. Convince yourself by asking the nearest Cletrac dealer for a demonstration on your own farm.

#### THERE'S A CLETRAC TRACTOR TO FIT YOUR NEEDS



**MODEL N**—a cultivating and pulling 2-3 plow tractor in 31", 42" and 68" widths. 20 belt h.p.



**MODEL E**—a cultivating and pulling 3-4 plow tractor in 42", 62", 68" and 76" widths—standard and high clearance models 22 drawbar h.p. 30.5 belt h.p. Gasoline or diesel.



**MODEL A**—a pulling tractor for heavy work and tough conditions. 27 drawbar h.p. 34 belt h.p. Gasoline or diesel.



**MODEL B**—a pulling tractor of 35 drawbar h.p. and 44 belt h.p. Gasoline or diesel.

THE CLEVELAND TRACTOR CO., 19310 EUCLID AVE., CLEVELAND, OHIO

Write name and address here  and mail for complete information. I farm \_\_\_\_\_ acres.

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# INSECT AND DISEASE CONTROL



## DUSTING EQUIPMENT

### Dusters

#### HAND

John Bean Mfg. Co., Lansing, Mich.  
E. C. Brown Co., Rochester, N.Y.  
Dobbins Mfg. Co., No. St. Paul, Minn.  
A. B. Farquhar Co., Ltd., York, Pa.  
H. D. Hudson Mfg. Co., Chicago, Ill.  
Lake Erie Steel & Blanking Co., Cleveland, Ohio  
Los Angeles Chemical Co., Los Angeles, Calif.  
Messinger Mfg. Co., Tatamy, Pa.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Nico-Dust Mfg. Co., Los Angeles, Calif.  
Root Mfg. Co., Cleveland, Ohio  
D. B. Smith & Co., Utica, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

#### POWER

Agicide Laboratories, Inc., Milwaukee, Wis.  
American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
A. B. Farquhar Co., Ltd., York, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Master Fan Corp., Los Angeles, Calif.  
Messinger Mfg. Co., Tatamy, Pa.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Root Mfg. Co., Cleveland, Ohio  
Shunk Mfg. Co., Bucyrus, Ohio  
Edwin C. Tyson, Flora Dale, Pa.

### Mixers, Dust

Agicide Laboratories, Inc., Milwaukee, Wis.  
"Friend" Mfg. Co., Gasport, N.Y.  
Lake Erie Steel & Blanking Co., Cleveland, Ohio  
Messinger Mfg. Co., Tatamy, Pa.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Root Mfg. Co., Cleveland, Ohio  
Shunk Mfg. Co., Bucyrus, Ohio

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## DUSTING MATERIALS

### Dust Fillers

Agicide Laboratories, Inc., Milwaukee, Wis.  
American Lime & Stone Co., Bellefonte, Pa.  
Calcium Carbonate Co., Chicago, Ill.  
France Stone Co., Toledo, Ohio  
Gibsonburg Lime Products Co., Gibsonburg, Ohio  
Ohio Hydrate & Supply Co., Woodville, Ohio  
United States Gypsum Co., Chicago, Ill.  
Woodville Lime Products Co., Toledo, Ohio

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### Fluorine Dusts

Aluminum Ore Co., Pittsburgh, Pa.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Stauffer Chemical Co., New York, N.Y.

### Lime

Aluminum Ore Co., Pittsburgh, Pa.  
American Lime & Stone Co., Bellefonte, Pa.  
France Stone Co., Toledo, Ohio  
Gibsonburg Lime Products Co., Gibsonburg, Ohio  
Kimbalton Lime Co., Inc., Shawsville, Va.  
Ohio Hydrate & Supply Co., Woodville, Ohio

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Scioto Lime & Stone Co., Delaware, Ohio  
Tennessee Corp., Lockland, Ohio  
United States Gypsum Co., Chicago, Ill.  
Woodville Lime Products Co., Toledo, Ohio

### Monohydrated Copper Sulphate Dusts

Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
McCormick & Co., Inc., Baltimore, Md.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Phelps Dodge Refining Corp., New York, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
J. W. Woolfolk Co., Ft. Valley, Ga.

### Nicotine Dusts

Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
McCormick & Co., Inc., Baltimore, Md.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Nicotine Production Corp., Clarksville, Tenn.  
Tobacco By-Products & Chemical Corp., Louisville, Ky.  
J. W. Woolfolk Co., Ft. Valley, Ga.

### Pyrethrum Dusts

Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
General Chemical Co., New York, N.Y.  
Kalo Co., Quincy, Ill.  
Kay-Fries Chemicals, Inc., New York, N.Y.  
McCormick & Co., Inc., Baltimore, Md.  
McLaughlin Gormley King Co., Inc., Minneapolis, Minn.  
Mechling Bros. Chemical Co., Camden, N.J.  
Micronizer Processing Co., Inc., Moorestown, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
S. B. Penick & Co., New York, N.Y.  
B. G. Pratt Co., New York, N.Y.  
Stauffer Chemical Co., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.



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Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
John Lucas Co., Philadelphia, Pa.  
McCormick & Co., Inc., Baltimore, Md.  
Mechling Bros. Chemical Co., Camden, N.J.  
Micronizer Processing Co., Inc., Moorestown, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
National Sulphur Co., Inc., New York, N.Y.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
S. B. Penick & Co., New York, N.Y.  
Rotenone Products Co., East Orange, N.J.  
Sherwin-Williams Co., Cleveland, Ohio  
Stauffer Chemical Co., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.

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## Sulphur Dusts

Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Battelle & Renwick, New York, N.Y.  
Bowker Chemical Co., New York, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Koppers Co., Tar and Chemical Div., Pittsburgh, Pa.  
John Lucas Co., Philadelphia, Pa.  
McCormick & Co., Inc., Baltimore, Md.  
Mechling Bros. Chemical Co., Camden, N.J.  
Merrimac Chemical Co., Everett, Mass.  
Micronizer Processing Co., Inc., Moorestown, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
National Sulphur Co., Inc., New York, N.Y.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
South Haven Chemical Co., South Haven, Mich.  
Stauffer Chemical Co., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.

## Tobacco Dusts

Interstate Chemical Mfg. Co., Reading, Pa.  
J. F. Long Co., Versailles, Ohio

### Tri-Basic Copper Sulphate Dusts

Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Sherwin-Williams Co., Cleveland, Ohio  
Tennessee Corp., Atlanta, Ga.

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# INSECT AND DISEASE CONTROL

## ORCHARD SANITATION

**Acetylene Exploder**  
Salt Lake Stamp Co., Salt Lake City, Utah

**Ant Exterminators**  
American Cyanamid & Chemical Corp., New York, N.Y.  
Anrol Laboratories, Inc., Los Angeles, Calif.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Tobacco By-Products & Chemical Corp., Louisville, Ky.

**Bands, Tree**  
John Bacon Inc., Gasport, N.Y.  
Bemis Bro. Bag Co., St. Louis, Mo.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Hinde & Dauch Paper Co., Sandusky, Ohio  
Edwin H. House, Saugatuck, Mich.  
M. H. Hunt & Son, Lansing, Mich.  
M. A. Koeller, Barry, Ill.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Owens-Illinois Glass Co., Toledo, Ohio  
F. A. Read, Inc., Winchester, Va.  
Rice, Trew & Rice Co., Biglerville, Pa.  
Tanglefoot Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.

**Beta Naphthol**  
American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.  
Braun-Knecht-Heimann-Co., San Francisco, Calif.  
Sherwin-Williams Co., Cleveland, Ohio

**Brush Burners**  
Aeroil Burner Co., Inc., West New York, N.J.  
E. C. Brown Co., Rochester, N.Y.  
Hauck Mfg. Co., Brooklyn, N.Y.  
Ker-O-Kil Mfg. Co., San Francisco, Calif.

**Brush Cutters**  
E. C. Atkins & Co., Indianapolis, Ind.  
Bartlett Mfg. Co., Detroit, Mich.  
Killefer Mfg. Corp., Ltd., Los Angeles, Calif.  
A. M. Leonard & Son, Piqua, Ohio  
Mitts & Merrill, E. Saginaw, Mich.  
Seymour Smith & Son, Inc., Oakville, Conn.  
Carroll R. Tiffany, Conklin, N.Y.  
J. Wiss & Sons Co., Newark, N.J.

**Calcium Chloride**  
American Cyanamid & Chemical Corp., New York, N.Y.  
Braun-Knecht-Heimann-Co., San Francisco, Calif.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Harshaw Chemical Co., Cleveland, Ohio  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Merck & Co., Inc., Rahway, N.J.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Solvay Sales Corp., New York, N.Y.  
Stauffer Chemical Co., New York, N.Y.  
Texas Co., New York, N.Y.

**Disinfecting Materials**  
American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Merck & Co., Inc., Rahway, N.J.  
Monsanto Chemical Co., St. Louis, Mo.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Robinson Bros., Buffalo Ammonia, Inc., Brooklyn, N.Y.  
Rohm & Haas Co., Philadelphia, Pa.  
Sherwin-Williams Co., Cleveland, Ohio  
Stauffer Chemical Co., New York, N.Y.

**Ethylene Dichloride**  
Carbide & Carbon Chemicals Corp., New York, N.Y.  
Fred Durand, Woodbury, Ga.  
General Chemical Co., New York, N.Y.  
McKenzie Chemical Co., Montezuma, Ga.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
G. S. Robins Co., St. Louis, Mo.  
J. W. Woolfolk Co., Fort Valley, Ga.

**Glutrin**  
Robeson Process Co., New York, N.Y.

**Insect Barriers**  
California Spray-Chemical Corp., Richmond, Calif.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Standard Oil Co. of Indiana, Chicago, Ill.  
Tanglefoot Co., Grand Rapids, Mich.

**Insect Electrocuters**  
Alert Electric Door Control Co., Los Angeles, Calif.  
Chicago Electric Scientific Co., Chicago, Ill.  
Folmer Electracide Corp., Rochester, N.Y.  
Insect Electrocuter Co., Cincinnati, Ohio  
International Sales Co., Chicago, Ill.  
Monolite Co., Berkeley, Calif.  
Mortene Laboratories, Chicago, Ill.

JUNE, 1940

## Insect Light Traps

Miller Co., Meriden, Conn.

## Paradichlorobenzine

Allegheny Chemical Corp., Reading, Pa.  
Braun-Knecht-Heimann-Co., San Francisco, Calif.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Hooker Electro Chemical Co., Niagara Falls, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Mechling Bros. Chemical Co., Camden, N.J.  
Merck & Co., Inc., Rahway, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Monsanto Chemical Co., St. Louis, Mo.  
Niagara Alkali Co., New York, N.Y.  
Solvay Sales Corp., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.

## Rodent Destroyers

### FIREARMS

Marlin Firearms Co., New Haven, Conn.  
Remington Arms Co., Inc., Bridgeport, Conn.  
Savage Arms Co., New York, N.Y.  
Winchester Repeating Arms Co., New Haven, Conn.

### POISONS

American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.  
Anrol Laboratories, Inc., Los Angeles, Calif.  
K-R-O Co., Springfield, Ohio  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Pasture Vaccine Laboratories, New York, N.Y.  
Rat Biscuit Co., Springfield, Ohio  
Rose Rat Exterminator Co., Chicago, Ill.  
D. B. Smith & Co., Inc., Utica, N.Y.

### TRAPS

Animal Trap Co. of America, Lititz, Pa.  
Anrol Laboratories, Inc., Los Angeles, Calif.  
Hawkins Co., South Britain, Conn.  
Michigan Wire Goods Co., Niles, Mich.

## Rodent Repellents

Castle Chemical Co., Castle Rock, Minn.  
Clarion Development Co., Inc., Clarion, Pa.  
Hammond Paint & Chemical Co., Beacon, N.Y.  
J. Livingstone, Jr., Milwaukee, Wis.  
Rollin H. Tabor, Mt. Vernon, Ohio  
Tanglefoot Co., Grand Rapids, Mich.

## Scrapers, Bark

Bartlett Mfg. Co., Detroit, Mich.  
Fruit Packing Equipment Co., Swopce, Va.  
A. M. Leonard & Son, Piqua, Ohio  
Parma Water Lifter Co., Parma, Idaho  
Carroll R. Tiffany, Conklin, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

## Terpinyl Acetate

Eastman Kodak Stores, Washington, D.C.  
Eimer & Amend, New York, N.Y.  
vanAmergen Haebler, Inc., New York, N.Y.

## Tree Healing Compounds

Bartlett Mfg. Co., Detroit, Mich.  
Clarion Development Co., Inc., Clarion, Pa.  
Flintkote Co., New York, N.Y.  
Joseph A. Fram Co., Inc., Norfolk, Va.  
M. H. Hunt & Son, Lansing, Mich.  
Interstate Chemical Mfg. Co., Reading, Pa.  
A. M. Leonard & Son, Piqua, Ohio

## Tree Protectors

Brown Fence & Wire Co., Cleveland, Ohio  
Chase Bag Co., Chagrin Falls, Ohio  
Kitselman Bros., Muncie, Ind.

## Weed Killers

**ARSENICAL COMPOUNDS**  
California Spray-Chemical Corp., Richmond, Calif.  
General Chemical Co., New York, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

### BURNERS

Aeroil Burner Co., Inc., West New York, N.J.  
E. C. Brown Co., Rochester, N.Y.  
Hauck Mfg. Co., Brooklyn, N.Y.  
Ker-O-Kil Mfg. Co., San Francisco, Calif.

### CALCIUM CHLORATE

Eimer & Amend, New York, N.Y.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Oldbury Electro Chemical Co., Niagara Falls, N.Y.  
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General Chemical Co., New York, N.Y.  
Harshaw Chemical Co., Cleveland, Ohio  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Merck & Co., Inc., Rahway, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Stauffer Chemical Co., Inc., New York, N.Y.  
Wheeler, Reynolds & Stauffer, San Francisco, Calif.

## CULTIVATORS

Babcock Mfg. Co., Leonardville, N.Y.  
Barker Mfg. Co., David City, Nebr.  
Chase Plow Co., Lincoln, Nebr.  
John Deere, Moline, Ill.

## LIQUIDS

Chipman Chemical Co., Inc., Bound Brook, N.J.  
Reade Mfg. Co., Inc., Jersey City, N.J.  
Tennessee Eastman Corp., Kingsport, Tenn.

## NON-POISONOUS COMPOUNDS

Chipman Chemical Co., Inc., Bound Brook, N.J.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.

## SODIUM ARSENITE

California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Sherwin-Williams Co., Cleveland, Ohio

## SODIUM CHLORATE

Braun-Knecht-Heimann-Co., San Francisco, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Oldbury Electro Chemical Co., Niagara Falls, N.Y.

## SODIUM SALT OF DINITRO-CRESOL

Standard Agricultural Chemicals, Inc., Hoboken, N.J.

## TORCHES

Aeroil Burner Co., Inc., West New York, N.J.  
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"Friend" Mfg. Co., Gasport, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

### BROOMS

John Bean Mfg. Co., Lansing, Mich.  
Deming Co., Salem, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

### CLOTHS, STRAINER

John Bean Mfg. Co., Lansing, Mich.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.

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# INSECT AND DISEASE CONTROL

## GUNS

John Bacon Inc., Gasport, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
E. C. Brown Co., Rochester, N.Y.  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
Double Twirler Spray Nozzle Corp., Red Hook, N.Y.  
Eureka Mower Co., Utica, N.Y.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
H. D. Hudson Mfg. Co., Chicago, Ill.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.  
Windmaster Spray Gun Co., Hood River, Ore.

## HAMILTON

*"Spray Guns that pay"*

Your entire program may be fine  
Don't let an inferior spray gun  
spoil it

See the New Six Model Hamilton Gun at the following Dealers

**W. L. HAMILTON & CO.**  
BANGOR, MICHIGAN

**Six Models** A GUN FOR EVERY PURPOSE



## HOSE

John Bacon Inc., Gasport, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
Boston Woven Hose & Rubber Co., Boston, Mass.  
Broadway Rubber Mfg. Co., Louisville, Ky.  
Campbell & Budlong Machine Works, San Jose, Calif.  
Campbell-Hausfeld Co., Harrison, Ohio  
Continental Rubber Works, Erie, Pa.  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
Electric Hose & Rubber Co., Wilmington, Del.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Akron, Ohio  
Hardie Mfg. Co., Hudson, Mich.  
A. M. Leonard & Son, Piqua, Ohio  
Manhattan Rubber Mfg. Co., Passaic, N.J.  
Mercer Rubber Co., Hamilton Square, N.J.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Republic Rubber Div., Lee Rubber & Tire Corp., Youngstown, Ohio  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.  
United States Rubber Co., New York, N.Y.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

## NOZZLES

John Bean Mfg. Co., Lansing, Mich.  
E. C. Brown Co., Rochester, N.Y.  
Campbell-Hausfeld Co., Harrison, Ohio  
Champion Corp., Hammond, Ind.  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
Double Twirler Spray Nozzle Corp., Red Hook, N.Y.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
H. D. Hudson Mfg. Co., Chicago, Ill.  
McClain Brothers Co., Canton, Ohio  
F. E. Myers & Bro. Co., Ashland, Ohio  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
D. B. Smith & Co., Utica, N.Y.  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

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## PRESSURE GAUGES

John Bacon Inc., Gasport, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
Frick Company, Waynesboro, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

## RODS

John Bean Mfg. Co., Lansing, Mich.  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
Eureka Mower Co., Utica, N.Y.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
Messmer Brass Co., St. Louis, Mo.  
F. E. Myers & Bro. Co., Ashland, Ohio  
D. B. Smith & Co., Utica, N.Y.  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

## STRAINERS

John Bean Mfg. Co., Lansing, Mich.  
Campbell & Budlong Machine Works, San Jose, Calif.  
Campbell-Hausfeld Co., Harrison, Ohio  
Deming Co., Salem, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

## SWIVELS

John Bean Mfg. Co., Lansing, Mich.  
Deming Co., Salem, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
C. B. Hunt & Son, Salem, Ohio  
F. E. Myers & Bro. Co., Ashland, Ohio  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Windmaster Spray Gun Co., Hood River, Ore.

## VALVES

E. C. Atkins & Co., Indianapolis, Ind.  
John Bean Mfg. Co., Lansing, Mich.  
Central Brass Co., Cleveland, Ohio  
Crane Co., Chicago, Ill.  
Dobbins Mfg. Co., No. St. Paul, Minn.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
Frick Company, Waynesboro, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

## ?? SPRAY HOSE BURSTING ??

GUARANTEED HIGH-PRESSURE HOSE  
ANY LENGTH—ANY PRESSURE TO 1,000 POUNDS

1/2" x 3 BRAID 210 FT. 1/2" x 3 BRAID 250 FT.  
1/2" x 3 BRAID 250 FT. 1/2" x 3 BRAID 410 FT.  
1/2" x 3 BRAID 410 FT. 1/2" x 3 BRAID 510 FT.  
1/2" x 3 BRAID 510 FT. 1/2" x 3 BRAID 610 FT.

**SAMPLE FREE** BROADWAY RUBBER MFG. CO.  
Manufacturers and Suppliers Since 1918  
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Fulton Bag & Cotton Mills, Atlanta, Ga.  
Goodall Rubber Co., Inc., Philadelphia, Pa.  
Miller Rubber Co., Akron, Ohio  
Minor Rubber Co., Inc., Newark, N.J.  
B. C. Tillinghast Rubber Co., Philadelphia, Pa.  
A. J. Tower Co., Boston, Mass.

### BOOTS

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Hood Rubber Co., Watertown, Mass.  
Miller Rubber Co., Akron, Ohio  
Minor Rubber Co., Inc., Newark, N.J.  
Mishawaka Rubber & Woolen Mfg. Co., Mishawaka, Ind.  
United States Rubber Co., New York, N.Y.

## COATS

Broadway Rubber Mfg. Co., Louisville, Ky.  
Brown Beach Jacket Co., Worcester, Mass.  
Continental Rubber Works, Erie, Pa.  
Goodall Rubber Co., Inc., Philadelphia, Pa.  
Hood Rubber Co., Watertown, Mass.  
Miller Rubber Co., Akron, Ohio  
B. C. Tillinghast Rubber Co., Philadelphia, Pa.  
A. J. Tower Co., Boston, Mass.

## GLOVES, RUBBER

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Faultless Rubber Co., Ashland, Ohio  
Goodall Rubber Co., Inc., Philadelphia, Pa.  
B. F. Goodrich Co., Akron, Ohio  
Miller Rubber Co., Inc., Akron, Ohio  
Mine Safety Appliances Co., Pittsburgh, Pa.  
Seiberling Rubber Co., Akron, Ohio  
United States Rubber Co., New York, N.Y.

## HATS

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Goodall Rubber Co., Inc., Philadelphia, Pa.  
Minor Rubber Co., Inc., Newark, N.J.  
B. C. Tillinghast Rubber Co., Philadelphia, Pa.  
A. J. Tower Co., Boston, Mass.

## OVERALLS AND SHIRTS

Crown Overall Mfg. Co., Cincinnati, Ohio  
Hamilton Carhartt Overall Co., Detroit, Mich.  
Red Diamond Clothing Co., St. Louis, Mo.  
A. J. Tower Co., Boston, Mass.

## TROUSERS

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Crown Overall Mfg. Co., Cincinnati, Ohio  
Goodall Rubber Co., Inc., Philadelphia, Pa.  
Hamilton Carhartt Overall Co., Detroit, Mich.  
Minor Rubber Co., Inc., Newark, N.J.  
A. J. Tower Co., Boston, Mass.

## FAMOUS FOR OVER 100 YEARS



## Spray Hose Fittings

John Bacon Inc., Gasport, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
Broadway Rubber Mfg. Co., Louisville, Ky.  
Campbell & Budlong Machine Works, San Jose, Calif.  
Campbell-Hausfeld Co., Harrison, Ohio  
Central Brass Co., Cleveland, Ohio  
Clark Spray Machine Co., Hartford, Ohio  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
Electric Hose & Rubber Co., Wilmington, Del.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Goodall Rubber Co., Philadelphia, Pa.  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Akron, Ohio  
W. L. Hamilton & Co., Bangor, Mich.  
Hardie Mfg. Co., Hudson, Mich.  
C. B. Hunt & Son, Salem, Ohio  
A. M. Leonard & Son, Piqua, Ohio  
F. E. Myers & Bro. Co., Ashland, Ohio  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Northwest Irrigation Co., Antigo, Wis.  
Skinner Irrigation Co., Troy, Ohio  
D. B. Smith & Co., Utica, N.Y.  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
B. C. Tillinghast Rubber Co., Philadelphia, Pa.  
Edwin C. Tyson, Flora Dale, Pa.  
United States Rubber Co., New York, N.Y.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

## EVERYTHING FOR THE ORCHARD

SPRAYERS, DUSTERS, MATERIALS—Power and Hand Sprayers. Spray Materials and Dust Mixtures. Hand and Power Dusters. Sprayer Accessories, Guns, Rods, Nozzles, Hose, Weed Killers, Wood Preservatives, Hydrometers, Hygrometers, and Magnifiers. E-Z "U" Face Protectors. State requirements and ask for Special Catalogs. No General Catalog.  
**EDWIN C. TYSON FLORA DALE, PA.**  
See Adv. Pages 26, 38

JUNE, 1940

AMERICAN FRUIT GROWER

## INSECT AND DISEASE CONTROL

### Spray Protection

#### FACE SHIELDS

Chicago Eye Shield Co., Chicago, Ill.

#### GOGGLES

American Optical Co., Southbridge, Mass.  
Chicago Eye Shield Co., Chicago, Ill.  
H. S. Cover, South Bend, Ind.  
Mine Safety Appliances Co., Pittsburgh, Pa.  
Minor Rubber Co., Inc., Newark, N.J.  
Pulmosan Safety Equipment Corp., Brooklyn, N.Y.  
Willson Products, Inc., Reading, Pa.

## THE RIGHT WAY TO FACE ANY SPRAY—

Wear This New Cesco

E-Z-"C"

## Face and Eye PROTECTOR!

★ See that piece of Transparent Ribbon? Well, it's a new idea in Face Protectors. 30 feet of it in a roll. When your visor becomes water-spotted or smudged, simply pinch out a few inches, tear it off and ALL'S CLEAR again!

Comfort - Security - Better Crop Coverage!

E-Z-"C" offers the modern, up-to-date SAFE method of tackling lime, sulphur, lead and poisonous spray jobs. You SEE WHAT YOU COVER at all times, thereby getting more thorough application of the spray. Order a sample from your dealer to-day—or write direct. \$3 complete.

CHICAGO EYE SHIELD CO., 2307 Warren Blvd., Chicago, Illinois

#### MASKS

American Optical Co., Southbridge, Mass.  
Bink Mfg. Co., Chicago, Ill.  
Chicago Eye Shield Co., Chicago, Ill.  
Mine Safety Appliances Co., Pittsburgh, Pa.  
Willson Products, Inc., Reading, Pa.

#### RESPIRATORS

American Optical Co., Southbridge, Mass.  
Chicago Eye Shield Co., Chicago, Ill.  
H. S. Cover, South Bend, Ind.  
B. F. Goodrich Co., Akron, Ohio  
Mine Safety Appliances Co., Pittsburgh, Pa.  
Minor Rubber Co., Inc., Newark, N.J.  
Pulmosan Safety Equipment Corp., Brooklyn, N.Y.  
Willson Products, Inc., Reading, Pa.

#### SKIN PROTECTIVES

Chesebrough Mfg. Co., New York, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Valvoline Oil Co., Cincinnati, Ohio

### Spray Pumps

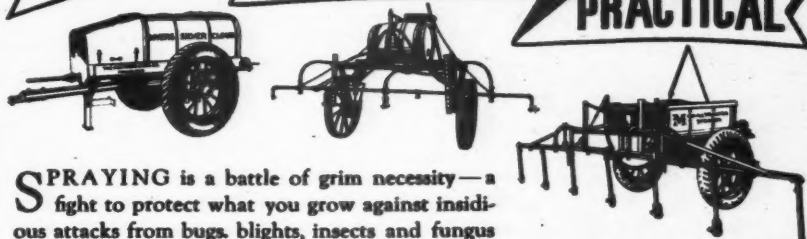
#### HAND

John Bean Mfg. Co., Lansing, Mich.  
E. C. Brown Co., Rochester, N.Y.  
Campbell-Hausfeld Co., Harrison, Ohio  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Goulds Pumps, Inc., Seneca Falls, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
H. D. Hudson Mfg. Co., Chicago, Ill.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
D. B. Smith & Co., Utica, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

#### POWER

John Bean Mfg. Co., Lansing, Mich.  
E. C. Brown Co., Rochester, N.Y.  
Campbell & Budlong Machine Works, San Jose, Calif.  
Deming Co., Salem, Ohio  
Dobbins Mfg. Co., No. St. Paul, Minn.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
McClain Brothers Co., Canton, Ohio  
F. E. Myers & Bro. Co., Ashland, Ohio  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Universal Power Sprayer Co., Inc., Plymouth, Mich.

JUNE, 1940



SPRAYING is a battle of grim necessity—a fight to protect what you grow against insidious attacks from bugs, blights, insects and fungus pests. The tiny foe is merciless—your spray equipment must not fail. Whatever your spray requirements, it pays to remember that MYERS Spray Pumps are thoroughly practical fighting tools, built to exactly fit the job for which they are intended. Three generations of American growers have learned to depend on MYERS sprayers for effective, reliable, economical service. The MYERS line is the largest and most complete in the world. It includes everything from the biggest power spray rigs down to the smallest hand outfits. Catalog free on request.

MYERS offers you thoroughly dependable spray equipment of every wanted type and capacity—for orchards, groves, vineyards, cotton, tobacco, row crops, nurseries, greenhouses and gardens. Gun sprayers, boom sprayers and combination sprayers. Engine powered, tractor powered, traction driven and hand operated sprayers. Wheeled sprayers, stationary sprayers and portable sprayers. Tank sprayers, barrel sprayers, knapsack and compressed air sprayers. Mail the convenient coupon TODAY.

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"Pump Builders Since 1870"

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Self-Oiling POWER SPRAYERS

The F. E. Myers & Bro. Co., 590 Fourth Street, Ashland, Ohio

Power Sprayers . . . . . <input type="checkbox"/>	Hand Pumps . . . . . <input type="checkbox"/>	Sump Pumps . . . . . <input type="checkbox"/>
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Power Pumps . . . . . <input type="checkbox"/>	Pump Jacks . . . . . <input type="checkbox"/>	Hay Unloading Tools . . . . . <input type="checkbox"/>
Send free information on items checked		Door Hangers . . . . . <input type="checkbox"/>

and the name of your nearest dealer

GS 408

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### Sprayer Equipment

#### BEARINGS

Hyatt Bearings Division, General Motors Sales Corp., Harrison, N.J.  
New Departure Mfg. Co., Detroit, Mich.  
SKF Industries, Inc., Philadelphia, Pa.  
Timken Roller Bearing Co., Canton, Ohio

#### ENGINES

John Bean Mfg. Co., Lansing, Mich.  
Briggs & Stratton Corp., Milwaukee, Wis.  
J. I. Case Co., Racine, Wis.  
Caterpillar Tractor Co., Peoria, Ill.  
Cushman Motor Works, Lincoln, Nebr.  
John Deere, Moline, Ill.  
Dempster Mill Mfg. Co., Beatrice, Nebr.  
Fairbanks, Morse & Co., Chicago, Ill.  
A. B. Farquhar Co., Ltd., York, Pa.  
Field Force Mfg. Co., Pottstown, Pa.  
Frisk Company, Waynesboro, Pa.  
"Friend" Mfg. Co., Gasport, N.Y.  
Hardie Mfg. Co., Hudson, Mich.  
Hercules Motors Corp., Canton, Ohio  
International Harvester Co., Chicago, Ill.  
Le Roi Co., Milwaukee, Wis.  
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Nelson Bros. Co., Saginaw, Mich.  
New-Way Engine Co., Lansing, Mich.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Novo Engine Co., Lansing, Mich.  
Oliver Farm Equipment Sales Co., Chicago, Ill.  
Palmer Bros., Cos Cob, Conn.  
Stover Mfg. & Engine Co., Freeport, Ill.

AMERICAN FRUIT GROWER

Universal Power Sprayer Co., Inc., Plymouth, Mich.

Waukesha Motor Co., Waukesha, Wis.  
Witte Engine Works, Kansas City, Mo.  
Worthington Pump & Machinery Co., Buffalo, N.Y.

#### FILTERS

A. C. Spark Plug Co., Flint, Mich.  
Binks Mfg. Co., Chicago, Ill.  
Motor Improvements, Inc., Newark, N.J.  
F. E. Myers & Bro. Co., Ashland, Ohio

## There's a Good Reason Why



STOVER MFG. & ENGINE CO.,

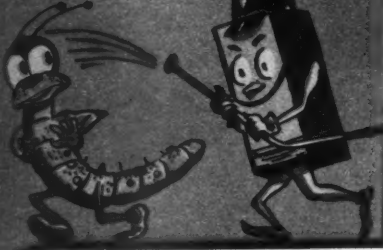
hundreds of manufacturers continue to use  
**STOVER ENGINES**  
for motive power. Write Department E63F for the Stover Engine Catalog 44, before you buy any engine.

Freeport, Ill.

PAGE 19

# BATTLE THE BUGS

with CORONA products



**1** **AND YOUR ORCHARD** of destructive infestation with Corona Dry Arsenate of Lead. This double-action, doubly-effective poison destroys codling moth, curculio, bud moth and other pests. Actual tests and laboratory analysis have proved its quick killing power against all chewing insects.

**2** **NO MORE POTATO BUGS**—when you spray with Corona Bordeaux Mixture. Finely ground, these powders come to you ready to use as a spray or dust. Scientific workers agree that the use of Bordeaux Mixture on potato foliage increases yields.

**3** **TREE WOUNDS** can be fixed quickly and easily with Corona Tree Wound Dressing. This preparation has taken years to develop. Retains its healing properties indefinitely. Does not drive back living tissue.

**OTHER CORONA PRODUCTS**  
 CORONA MERKO - for treating seed corn  
 OATS DUST - for treating wheat seed  
 COPPERCARD - for treating wheat seed  
 50X PLUS - for treating seed potatoes  
 P. B. 7 DUST - for treating seed potatoes

**Corona**  
**CHEMICALS**  
 DIVISION OF  
**PITTSBURGH**  
 PLATE GLASS COMPANY  
 MILWAUKEE, WISCONSIN

## INSECTICIDES AND FUNGICIDES

The complete line of  
**High Standard**

Quality Products  
 Mfd. by

**Allegheny Chemical Corp.**

35 N. 6th Street  
 Reading, Pennsylvania



## INSECT AND DISEASE CONTROL

### MOTORS, GASOLINE

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
 Briggs & Stratton Corp., Milwaukee, Wis.  
 Cushman Motor Works, Lincoln, Nebr.  
 Fairbanks, Morse & Co., Chicago, Ill.  
 Hercules Motor Corp., Canton, Ohio  
 Stover Mfg. & Engine Co., Freeport, Ill.

### DEPENDABLE POWER

Make this  
**TRADEMARK**  
 Your Guide  
 When Buying  
**GASOLINE POWERED**  
 Orchard and Farm  
 Equipment



### SPARK PLUGS

A. C. Spark Plug Co., Flint, Mich.  
 Champion Spark Plug Co., Toledo, Ohio  
 Defiance Spark Plugs Corp., Toledo, Ohio  
 Electric Auto-Lite Co., Toledo, Ohio  
 Firestone Tire & Rubber Co., Akron, Ohio  
 B. F. Goodrich Co., Akron, Ohio  
 Goodyear Tire & Rubber Co., Inc., Akron, Ohio

### TANKS AND TANK FILLERS

John Bacon Inc., Gasport, N.Y.  
 John Bean Mfg. Co., Lansing, Mich.  
 A. B. Farquhar Co., Ltd., York, Pa.  
 Field Force Mfg. Co., Pottstown, Pa.  
 Frick Company, Waynesboro, Pa.  
 "Friend" Mfg. Co., Gasport, N.Y.  
 Hardie Mfg. Co., Hudson, Mich.  
 Kalamazoo Tank & Silo Co., Kalamazoo, Mich.  
 F. E. Myers & Bro. Co., Ashland, Ohio  
 Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
 Universal Power Sprayer Co., Inc., Plymouth, Mich.

### TIRES, PNEUMATIC

Firestone Tire & Rubber Co., Akron, Ohio  
 Fisk Tires Division of U.S. Tire Dealers Corp., Chicopee Falls, Mass.  
 General Tire & Rubber Co., Akron, Ohio  
 Gillette Rubber Co., Eau Claire, Wis.  
 B. F. Goodrich Co., Akron, Ohio  
 Goodyear Tire & Rubber Co., Inc., Akron, Ohio  
 Kelly-Springfield Tire Co., Cumberland, Md.  
 Lee Tire & Rubber Corp., Conshohocken, Pa.  
 Seiberling Rubber Co., Akron, Ohio  
 United States Rubber Co., Detroit, Mich.

### TRAILERS

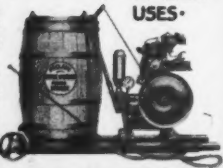
John Bean Mfg. Co., Lansing, Mich.  
 Ben Hur Trailer Div. Lavine Gear Co., Milwaukee, Wis.  
 Campbell & Budlong Machine Works, San Jose, Calif.  
 John Deere, Moline, Ill.  
 Electric Wheel Co., Quincy, Ill.  
 "Friend" Mfg. Co., Gasport, N.Y.  
 Hardie Mfg. Co., Hudson, Mich.  
 F. E. Myers & Bro. Co., Ashland, Ohio

### McCLAIN LITTLE WONDER POWER SPRAYER for ORCHARDISTS GREENHOUSES POULTRYMEN GARDENERS ESTATES

The inexpensive complete high pressure power sprayer you have been wanting for every type of spraying operation.  
 Runs a whole day on a few cents worth of gasoline.  
 Improved rugged heavy duty pump with stainless steel valves and piston.  
 Building for work. Timken bearings. Alomite oiling.

An all purpose small substantial power sprayer with big capacity. The low price will amaze you. Write for literature.

McCLAIN BROTHERS COMPANY, Dept. A-64, CANTON, OHIO



IT IS AT A PRICE YOU CAN NOW AFFORD TO PAY

THE SPRAYER OF MANY USES.

### Sprayers

#### HAND

John Bacon Inc., Gasport, N.Y.  
 John Bean Mfg. Co., Lansing, Mich.  
 E. C. Brown Co., Rochester, N.Y.  
 Campbell-Hausfeld Co., Harrison, Ohio  
 Deming Co., Salem, Ohio  
 Dobbins Mfg. Co., No. St. Paul, Minn.  
 Eureka Mower Co., Utica, N.Y.  
 A. B. Farquhar Co., Ltd., York, Pa.  
 Field Force Mfg. Co., Pottstown, Pa.  
 "Friend" Mfg. Co., Gasport, N.Y.  
 Hardie Mfg. Co., Hudson, Mich.  
 H. D. Hudson Mfg. Co., Chicago, Ill.  
 A. M. Leonard & Son, Piqua, Ohio  
 Los Angeles Chemical Co., Los Angeles, Calif.  
 F. E. Myers & Bro. Co., Ashland, Ohio  
 Niagara Sprayer & Chem. Co., Middleport, N.Y.  
 Oakes Mfg. Co., Inc., Tipton, Ind.  
 D. B. Smith & Co., Utica, N.Y.  
 Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
 Edwin C. Tyson, Flora Dale, Pa.

#### POWER

John Bacon Inc., Gasport, N.Y.  
 John Bean Mfg. Co., Lansing, Mich.  
 E. C. Brown Co., Rochester, N.Y.  
 Campbell & Budlong Mach. Wks., San Jose, Cal.  
 Champion Corp., Hammond, Ind.  
 Dobbins Mfg. Co., No. St. Paul, Minn.  
 Eureka Mower Co., Utica, N.Y.  
 A. B. Farquhar Co., Ltd., York, Pa.  
 Field Force Mfg. Co., Pottstown, Pa.  
 "Friend" Mfg. Co., Gasport, N.Y.  
 Hardie Mfg. Co., Hudson, Mich.  
 Love Tractor, Inc., Eau Claire, Mich.  
 McClain Brothers Co., Canton, Ohio  
 F. E. Myers & Bro. Co., Ashland, Ohio  
 Niagara Sprayer & Chem. Co., Middleport, N.Y.  
 Pomona Pump Co., Pomona, Calif.  
 Edwin C. Tyson, Flora Dale, Pa.  
 Universal Power Sprayer Co., Inc., Plymouth, Mich.  
 Utilitor Co., Miamisburg, Ohio

#### STATIONARY

John Bean Mfg. Co., Lansing, Mich.  
 Field Force Mfg. Co., Pottstown, Pa.  
 "Friend" Mfg. Co., Gasport, N.Y.  
 Hardie Mfg. Co., Hudson, Mich.  
 F. E. Myers & Bro. Co., Ashland, Ohio  
 Universal Power Sprayer Co., Inc., Plymouth, Mich.

#### TRACTION

John Bean Mfg. Co., Lansing, Mich.  
 Eureka Mower Co., Utica, N.Y.  
 A. B. Farquhar Co., Ltd., York, Pa.  
 Field Force Mfg. Co., Pottstown, Pa.  
 "Friend" Mfg. Co., Gasport, N.Y.  
 Hardie Mfg. Co., Hudson, Mich.  
 F. E. Myers & Bro. Co., Ashland, Ohio  
 Universal Power Sprayer Co., Inc., Plymouth, Mich.

## UNIVERSAL SPRAYERS

### POWER SPRAYERS

AND  
**SPRAY PUMPS**  
 THAT GIVE

## SERVICE

**SMALL POWER SPRAYERS**  
**OUR SPECIALTY**

UNIVERSAL POWER SPRAYER CO.  
 INC.  
 PLYMOUTH, MICHIGAN

### Truck Chains

American Chain Div., American Chain & Cable Co., Bridgeport, Conn.  
 Columbus-McKinnon Chain Co., Tonawanda, N.Y.  
 Scully Steel Products Co., Chicago, Ill.  
 Taylor Chain Co., Hammond, Ind.

### Trucks, Motor

Chevrolet Motor Div., General Motors Sales Corp., Detroit, Mich.  
 Chrysler Corp., Dodge Div., Detroit, Mich.  
 Chrysler Corp., Plymouth Div., Detroit, Mich.  
 Diamond T Motor Truck Co., Chicago, Ill.  
 Dodge Div., Chrysler Corp., Detroit, Mich.  
 Federal Motor Truck Co., Detroit, Mich.  
 Ford Motor Co., Dearborn, Mich.  
 General Motors Sales Corp., Chevrolet Motor Div., Detroit, Mich.  
 General Motors Truck & Coach Div., Yellow Truck & Coach Mfg. Co., Pontiac, Mich.  
 Hudson Motor Car Co., Detroit, Mich.  
 International Harvester Co., Chicago, Ill.  
 Mack Trucks, Inc., Long Island City, N.Y.  
 Plymouth Div., Chrysler Corp., Detroit, Mich.  
 Reo Motor Car Co., Lansing, Mich.  
 Studebaker Corp., South Bend, Ind.  
 White Motor Co., Cleveland, Ohio  
 Willys-Overland Co., Toledo, Ohio

# INSECT AND DISEASE CONTROL

## SPRAYING MATERIALS Arsenicals

### CALCIUM ARSENATE

Allegheny Chemical Corp., Reading, Pa.  
American Agricultural Chemical Co., New York, N.Y.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Micronizer Processing Co., Inc., Moorestown, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
J. W. Woolfolk Co., Ft. Valley, Ga.

### LEAD ARSENATE

Allegheny Chemical Corp., Reading, Pa.  
American Agricultural Chemical Co., New York, N.Y.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Latimer-Goodwin Chemical Co., Grand Junction, Colo.  
Mechling Bros. Chemical Co., Camden, N.J.  
Micronizer Processing Co., Inc., Moorestown, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
J. W. Woolfolk Co., Ft. Valley, Ga.

### MAGNESIUM ARSENATE

Dow Chemical Co., Midland, Mich.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
PARIS GREEN  
Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Sherwin-Williams Co., Cleveland, Ohio  
J. W. Woolfolk Co., Ft. Valley, Ga.

### ZINC ARSENITE

Allegheny Chemical Corp., Reading, Pa.  
California Spray-Chemical Corp., Richmond, Calif.  
General Chemical Co., New York, N.Y.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Sherwin-Williams Co., Cleveland, Ohio

### Coal Tar Derivatives

Sherwin-Williams Co., Cleveland, Ohio  
Standard Agricultural Chemicals, Inc., Hoboken, N.J.

### Copper Compounds

#### BORDEAUX MIXTURE

Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
John Lucas Co., Philadelphia, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Phelps Dodge Refining Corp., New York, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
Tennessee Corp., Atlanta, Ga.  
J. W. Woolfolk Co., Ft. Valley, Ga.

JUNE, 1940

### COPPER-ALUMINO-SILICATE

Permutit Co., New York, N.Y.

### COPPER OXYCHLORIDE

Röhm & Haas Co., Philadelphia, Pa.

### COPPER SILICATE

California Spray-Chemical Corp., Richmond, Calif.

### COPPER SULPHATE

Allegheny Chemical Corp., Reading, Pa.  
Braun-Knecht-Heimann-Co., San Francisco, Calif.

Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.

Phelps Dodge Refining Corp., New York, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
Tennessee Corp., Atlanta, Ga.  
J. W. Woolfolk Co., Ft. Valley, Ga.

### TRI-BASIC COPPER SULPHATE

Sherwin-Williams Co., Cleveland, Ohio  
Tennessee Corp., Atlanta, Ga.

### Cryolite

Aluminum Ore Co., Pittsburgh, Pa.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Stauffer Chemical Co., New York, N.Y.

### Dinitro Compounds

Dow Chemical Co., Midland, Mich.  
Standard Agricultural Chemicals, Inc., Hoboken, N.J.

### Ethylene Dichloride

Braun-Knecht-Heimann-Co., San Francisco, Calif.  
Fred Durand, Woodbury, Ga.  
General Chemical Co., New York, N.Y.  
McKenzie Chemical Co., Montezuma, Ga.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
G. S. Robins Co., St. Louis, Mo.  
J. W. Woolfolk Co., Fort Valley, Ga.

### Fixed Nicotine

Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Tobacco By-Products & Chemical Corp., Louisville, Ky.

## Z-O NEW COPPER FUNGICIDE... GREATER PROTECTION

Successor to Bordeaux. Mild! Efficient! Has been successfully used on apple scab, fruit spot, sooty blotch; on grapes; on vegetables. Effective in low concentrations. Write for literature. Sample 3-lb. package 50 cents, postpaid. Ask for quantity prices.

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For spraying or dusting use  
**KRYOCIDE...a fluorine insecticide**

**PENNSYLVANIA SALT**

MANUFACTURING CO. OF WASHINGTON

*Chemicals*

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TACOMA, WASHINGTON

## ELGETOL

### WATER SOLUBLE DORMANT SPRAY

ELGETOL combines ovicidal, insecticidal and fungicidal action. ELGETOL contains no oil and is non-corrosive. ELGETOL is easy to use.

STANDARD AGRICULTURAL CHEMICALS, Inc.

1300 Adams St., Hoboken, N. J.

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TOBACCO BY-PRODUCTS & CHEMICAL CORP.  
INCORPORATED • LOUISVILLE, KENTUCKY



Effectively Control Plant Diseases—

## Use T.C. COPPER FUNGICIDES

Water insoluble—26%—34%—53%

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Manufactured by **TENNESSEE CORPORATION**

ATLANTA, GEORGIA

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TRIANGLE BRAND

**COPPER SULPHATE**

**"INSTANT" 99% PURE** THE STANDARD FOR MAKING YOUR OWN BORDEAUX MIXTURE: "INSTANT" simplifies the preparation of your Bordeaux Mixture because it's easy to weigh accurately and dissolves immediately. Insist on Triangle Brand "INSTANT" and you can be sure of absolute accuracy of the metallic copper content of your spray mixture.

Your dealer can also supply Nichols Triangle Brand Copper Sulphate in Large or Small Crystals, Granular or Snow. For Copper Lime Dust use MONOHYDRATED—it has full 35% Metallic Copper content and is chemically and physically correct.

**PHELPS DODGE REFINING CORP.**

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## A Proven KILLER OF PEACH TREE BORER!

Para-dichlorobenzene has long been recommended by the U. S. Dept. of Agriculture and leading fruit growers as a *proven* killer of the peach tree borer. It destroys the borer's larvae without harm to the tree . . . is easy to apply . . . requires no special equipment . . . no mixing! Write immediately for complete information on

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**PARA-DICHLOROBENZENE**  
**SOLVAY SALES CORPORATION**  
Alkalies and Chemical Products Manufactured by  
The Solvay Process Company  
**40 RECTOR ST. NEW YORK, N.Y.**

**"Black Leaf 40"**

**TOBACCO BY-PRODUCTS & CHEMICAL CORP.**  
**INCORPORATED LOUISVILLE, KENTUCKY**

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The New Rotenone Spray Concentrate. One Quart makes 100 gallons spray insecticide. Kills insects without harm to crops—soil—animals.

Write for "Save Your Crops" folder  
**AGICIDE LABORATORIES, Inc.**  
4662 N. Teutonia Ave., Milwaukee, Wis.

**SUNOCO**  
SELF  
EMULSIFYING **SPRAY OIL**

Outstanding for the control of  
SCALE. Sixteen years of successful  
use in orchards.

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**SUN OIL COMPANY**  
Philadelphia, Pa.  
MAKERS OF BLUE SUNOCO MOTOR FUEL



**THE Complete  
PEACH SPRAY**  
everything in ONE PACKAGE  
... NO WASTE—NO BOTHER

Write for catalog and pamphlets giving full  
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**DI-CHLOR-MULSION**  
Kills peach tree-borers.

**THE J. W. WOOLFOLK COMPANY, Fort Valley, Ga.**

## INSECT AND DISEASE CONTROL

### Fluorine Compounds

Aluminum Ore Co., Pittsburgh, Pa.  
American Cyanamid & Chemical Corp., Insecti-  
cide Dept., New York, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli  
Chemicals Dept., Wilmington, Del.  
Kalo Co., Quincy, Ill.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Stauffer Chemical Co., New York, N.Y.

### Lime

American Lime & Stone Co., Bellefonte, Pa.  
Kimbalton Lime Co., Inc., Shawsville, Va.  
Ohio Hydrate & Supply Co., Woodville, Ohio  
United States Gypsum Co., Chicago, Ill.  
Woodville Lime Products Co., Toledo, Ohio

### Nicotine Sulphate

Allegheny Chemical Corp., Reading, Pa.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli  
Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Kay-Fries Chemicals, Inc., New York, N.Y.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Nicotine Production Corp., Clarksville, Tenn.  
Sherwin-Williams Co., Cleveland, Ohio  
Tobacco By-Products & Chemical Corp., Louis-  
ville, Ky.  
J. W. Woolfolk Co., Ft. Valley, Ga.

### Oils

#### EMULSIONS AND MISCIBLE OILS—

Summer Oils, Dormant Oils, Tar Emulsions  
Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Archer-Daniels-Midland Co., Minneapolis, Minn.  
California Spray-Chemical Corp., Richmond,  
Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Gras-  
selli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H.  
Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Gulf Refining Co., Pittsburgh, Pa.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
B. G. Pratt Co., New York, N.Y.

Schaeffer Bros. & Powell Co., St. Louis, Mo.  
Shell Petroleum Corp., St. Louis, Mo.  
Sherwin-Williams Co., Cleveland, Ohio  
Silmo Chemical Co., Inc., Vineland, N.J.  
Socony-Vacuum Oil Co., New York, N.Y.  
Standard Agricultural Chemicals, Inc., Hoboken,  
N.J.  
Standard Oil Co. of Indiana, Chicago, Ill.  
Sun Oil Co., Philadelphia, Pa.  
J. W. Woolfolk Co., Fort Valley, Ga.

### Paradichlorobenzene

Allegheny Chemical Corp., Reading, Pa.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Gras-  
selli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Merck & Co., Inc., Rahway, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Monsanto Chemical Co., St. Louis, Mo.  
Solvay Sales Corp., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.

### Organic Compounds

General Chemical Co., New York, N.Y.

### Pyrethrum and Derivatives

Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
General Chemical Co., New York, N.Y.  
Kay-Fries Chemicals, Inc., New York, N.Y.  
McCormick & Co., Inc., Baltimore, Md.  
McLaughlin Gormley King, Minneapolis, Minn.  
Mechling Bros. Chemical Co., Camden, N.J.  
S. B. Penick & Co., New York, N.Y.  
B. G. Pratt Co., New York, N.Y.  
Standard Oil Co. of Indiana, Chicago, Ill.

## AGICIDE

The New Rotenone Insecticide.  
For Dusting—For Spraying. Kills in-  
sects without harm to crops—soil—  
animals. Write for "Save Your Crops"  
Folder.

**AGICIDE LABORATORIES, Inc.**  
4662 N. Teutonia Ave., Milwaukee, Wis.

### Rotenone Products

Agicide Laboratories, Inc., Milwaukee, Wis.  
Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Gras-  
selli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
McCormick & Co., Inc., Baltimore, Md.  
McLaughlin Gormley King, Minneapolis, Minn.  
Mechling Bros. Chemical Co., Camden, N.J.  
S. B. Penick & Co., New York, N.Y.  
Stauffer Chemical Co., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.

### Spreaders, Soaps and Stickers

American Cyanamid & Chemical Corp., Insecti-  
cide Dept., New York, N.Y.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Archer-Daniels-Midland Co., Minneapolis, Minn.  
California Spray-Chemical Corp., Richmond,  
Calif.  
Central Soya Co., Fort Wayne, Ind.  
Colloidal Products Corp., San Francisco, Calif.  
E. I. du Pont de Nemours & Co., Inc., Gras-  
selli Chemicals Dept., Wilmington, Del.  
Glidden Co., Cleveland, Ohio  
Golden State Co., Ltd., San Francisco, Calif.  
Golden State Sales Corp., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Kay-Fries Chemicals, Inc., New York, N.Y.  
Mechling Bros. Chemical Co., Camden, N.J.  
B. G. Pratt Co., New York, N.Y.  
Rohm & Haas Co., Philadelphia, Pa.  
Sherwin-Williams Co., Cleveland, Ohio  
Silmo Chemical Co., Vineland, N.J.  
Standard Agricultural Chemicals, Inc., Hoboken,  
N.J.

### SPREAD-OL--A Fish Oil Product

Emulsifies mineral oils, ethylene dichlo-  
ride, etc. Economical sticker, spreader,  
flocculator. Safe—Used 10 years coast  
to coast. Write for catalog and details.

**Silmo Chemical Corp.,**  
**Vineland, N. J.**

## FORTIFY YOUR CODLING MOTH SPRAYS WITH D-X

**DX**

You can add tremendous killing power to  
your arsenate of lead sprays by adding D-X  
—the powerful new spray which impregnates  
the lead with pyrethrum and rotenone. This  
is a *real* control for codling moth and other  
hard-to-kill insects. Use 1 to 1½ pints D-X

per 100 gallons of arsenate of lead spray,  
with or without your regular fungicide.  
D-X is also a contact spray for aphids, leaf  
hoppers, etc. Safe and pleasant to use. Write  
for full information. B. G. Pratt Company,  
Dept. 11, 50 Church St., New York.

Made By  
**The Makers**  
of  
**SCALEXIDE**

## INSECT AND DISEASE CONTROL

### Sulphurs

#### DRY LIME SULPHUR

Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
J. W. Woolfolk Co., Ft. Valley, Ga.

#### LIQUID LIME SULPHUR

Allegheny Chemical Corp., Reading, Pa.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Bowker Chemical Co., New York, N.Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
J. W. Woolfolk Co., Ft. Valley, Ga.

## PENETROL and NICOTROL

Manufactured by  
**KAY-FRIES CHEMICALS, Inc.**  
180 Madison Ave. New York City

#### WETTABLE SULPHUR

Allegheny Chemical Corp., Reading, Pa.  
American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.  
Ansbacher-Siegle Corp., Brooklyn, N.Y.  
Calcium Sulphide Corp., Damascus, Va.  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.  
General Chemical Co., New York, N.Y.  
Koppers Products Co., Pittsburgh, Pa.  
Mechling Bros. Chemical Co., Camden, N.J.  
Merrimac Chemical Co., Everett, Mass.  
Micronizer Processing Co., Inc., Moorestown, N.J.  
Miller Chem. & Fertilizer Corp., Baltimore, Md.  
National Sulphur Co., Inc., New York, N.Y.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
Sherwin-Williams Co., Cleveland, Ohio  
Stauffer Chemical Co., New York, N.Y.  
J. W. Woolfolk Co., Ft. Valley, Ga.

### \* MICRONIZED WETTABLE SULFUR

(Avg. Particle size—3 Microns)

CONTROLS APPLE SCAB as efficiently as lime-sulfur solution when used in pre-pink application and throughout the summer season.

Eliminates foliage injury and russeting.

**Micronizer Processing Company, Inc.**

Moorestown, N. J.  
\*Reg. U.S. Pat. Off.

#### Zinc Sulphate

E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
Glidden Co., Cleveland, Ohio  
Sherwin-Williams Co., Cleveland, Ohio  
Tennessee Corp., Atlanta, Ga.  
Virginia Smelting Co., West Norfolk, Va.

JUNE, 1940



NOW IS THE TIME  
TO START USING

**ALORCO** *Cryolite*

The outstanding effectiveness of *Alorco Cryolite* has been especially apparent in mixed spray programs using *Cryolite* in the later covers.

That means you can start *now* getting the advantages which other users obtain with *Alorco Cryolite*—better pest control, at lower cost.

To help you get the best results from *Alorco Cryolite*, we shall be glad to send you the booklet "*Quotations from Published Data on Cryolite as an Insecticide.*" This presents the facts in the form of direct quotations from recognized experts, providing information on methods of application and results obtained by the use of *Cryolite* to protect apples, soybeans, corn, cotton, tobacco, sugar cane, and other fruit and ground crops.

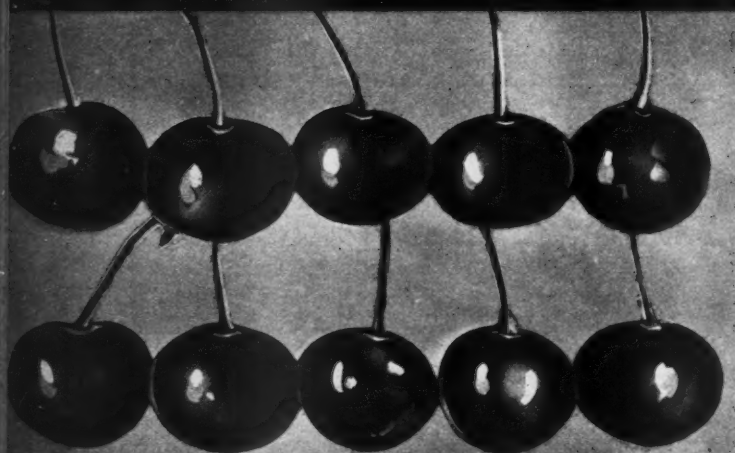
In buying, remember that *Alorco Cryolite* offers extra advantages. It is specially precipitated, to produce extremely fine particles which cover more area, stick better, and are easier to remove with the bath which removes the sticker. Your local dealer sells *Alorco Cryolite*, or can obtain it for you from distributors. For the free "*Quotations*" booklet, write direct to ALUMINUM COMPANY OF AMERICA, 1909 Gulf Bldg., Pittsburgh, Pa. (Sales Agent for ALUMINUM ORE COMPANY).

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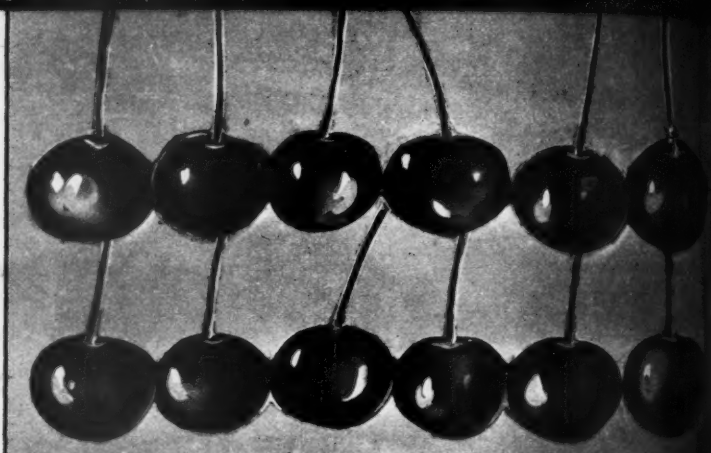
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Chipman Chemical Company, Inc.,  
E. I. DuPont de Nemours & Company, Inc., Grasselli  
Chemicals Department,  
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**ALORCO**  
**CRYOLITE**  **INSECTICIDE**

# ARE AS DIFFERENT FROM OTHER TRACTOR TIRE SPRAYED CHERRIES ARE FROM IMPROPERLY



These cherries came from trees that were properly sprayed and cultivated. Correct spray materials, properly applied, protect foliage. Cherries attain full healthy growth and sell at a higher price because of their high quality and excellent appearance.



These cherries are from trees that were improperly sprayed. Foliage is lost, food manufacturing processes are impaired, cherries are dwarfed. Small fruit with low sugar content means less income to the grower and consequently less profit.

**FIRESTONE** Ground Grip Tires have patented built-in advantages not found in ordinary tractor tires. These advantages give you more traction, automatic self-cleaning action, greater fuel economy, easier riding and enable you to do more work in less time. Yet they cost no more than ordinary tractor tires!

It was Firestone that developed the first practical pneumatic tractor tire and put the farm on rubber. It was Firestone that discovered that unbraced traction bars bend and lose their grip. It was Firestone that developed and **patented** triple-braced traction bars.

If you are figuring on changing over your tractor, your nearby dealer will gladly show you how little it costs. And when you buy your new tractor, order it equipped with self-cleaning Firestone Ground Grip Tires — **the greatest traction tires ever built!**

Listen to the Voice of Firestone with Richard Crooks and Margaret Speaks, Monday evenings, N. B. C. Red Network

See Firestone Champion Tires made in the Firestone Factory and Exhibition Building at New York World's Fair

Copyright, 1940, The Firestone Tire & Rubber Co. AFG6



Here's a handy chart harvested. See 3 1/2 x 11 you a copy without

# MORE TRACTORS ARE EQUIPPED WITH FIRESTONE G

R TIRES AS PROPERLY  
LY PRAYED CHERRIES

**BRACED TRACTION BARS  
ALWAYS GRIP!**  
**BROKEN TRACTION BARS  
BEND AND SLIP!**

prayed.  
impaired,  
means

FOR

ere's a har chart showing the months in year when different varieties of fruit are  
rvested. Se 8 1/4"x15"; printed in colors, suitable for hanging on the wall. We will send  
u a copy without cost or obligation, just fill out and mail the coupon at the right.

STONE GROUND GRIP TIRES THAN ANY OTHER MAKE



**TRIPLE-BRACED  
TRACTION BARS**  
DO NOT BEND, BREAK OR  
TEAR OFF.



**TRIPLE-BRACED  
TRACTION BARS**  
PREVENT MUD TRAPS,  
RIDE SMOOTHER AND  
WEAR LONGER.



**TRIPLE-BRACED  
TRACTION BARS**  
PROVIDE 52 TO 89 EXTRA  
INCHES OF CONTINUOUS  
TRACTION BAR LENGTH.



**TRIPLE-BRACED  
TRACTION BARS**  
GIVE GREATER TRACTION  
AND DRAWBAR PULL.



The Firestone Tire & Rubber Co., Akron, Ohio  
Without obligation on my part, please send me (check below):  
☐ A copy of FREE Fruit Harvest Chart.  
☐ A copy of the new Farm Guide Book.  
☐ Information about the Firestone Farm Tire Payment Plan.  
☐ Full details of the Firestone Tire Changeover Plan.  
☐ Please demonstrate Firestone Ground Grip Tires with my own tractor on my own farm.

Make and model of tractor ..... (date)  
Please demonstrate on ..... (date)  
Name .....  
R. F. D. or Street Number .....  
Town .....  
County ..... State ..... AFGs

# PRUNE



Prune to improve plants and trees, flower and fruit, contour and landscape harmony. Use Atkins easy-acting tools—the cutting edge that's kind to the tree. There is a complete line to choose from. Ask your hardware dealer.

**E. C. ATKINS AND COMPANY**  
484 S. Illinois St., Indianapolis, Ind.

# ATKINS SAWS

No. 22 Curved Saw

PRUNING  
SHEARS and  
Silver Steel

## STATIC GRAFTING COMPOUND

Asphalt Emulsion—Applied Cold

For all types of tree grafting, wound dressing, etc. No heating necessary. Just mix with water and apply cold. Adheres firmly to all surfaces. Does not retard the growth of callus. Not affected by the hottest weather. Easy to apply—economical to use on any kind of tree. Write for full information.

**THE FLINTKOTE COMPANY**

Industrial Products Division

50 W. 50th St. New York City

## FOR FINER FRUIT



Wiss Hy-Power Pruner

## WISS PRUNERS LOPPING SHEARS THINNING SHEARS

A Pruner for Every Purse and Purpose  
Write for Full Particulars

Famous for Quality Since 1848 **J. Wiss & Sons Co.** NEWARK, N. J.

## Protect Tree Wounds WITH

## SA VA TREE

The Pruning Paint that lasts until wounds have healed.

Growers, Distributors and others who may be interested are invited to write for free literature and prices

Use SOPACO Greenhouse Putty for glazing Southport Paint Co., Inc.

Division of Western Oil & Snowdrift Co., Inc. Savannah, Georgia

**ACME GRAFTING COMPOUND**  
Endorsed by Michigan State College. Moderately priced and applied cold with a brush. Used also as a protective coating for injury. Send for price list. Dealers wanted.  
H. M. Hunt & Son, 510 N. Cedar St., Lansing, Mich.

PAGE 28

## PRUNING



## GRAFTING

### Budding Strips and Tape

Bartlett Mfg. Co., Detroit, Mich.  
Easthampton Rubber Thread Co., Easthampton, Mass.  
B. F. Goodrich Co., Akron, Ohio  
Johnson & Johnson, New Brunswick, N.J.  
A. M. Leonard & Son, Piqua, Ohio  
Thomas B. Meehan Co., Dresher, Pa.  
Revoltite Corp., New Brunswick, N.J.  
Edwin C. Tyson, Florida Dale, Pa.  
United States Rubber Co., New York, N.Y.

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John Bacon Inc., Gasport, N.Y.  
Bartlett Mfg. Co., Detroit, Mich.  
Clarion Development Co., Clarion, Pa.  
Flintkote Co., New York, N.Y.  
Joseph A. Fraim Co., Inc., Norfolk, Va.  
Hill Top Orchards & Nurseries, Hartford, Mich.  
M. H. Hunt & Son, Lansing, Mich.  
Interstate Chemical Mfg. Co., Reading, Pa.  
A. M. Leonard & Son, Piqua, Ohio

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Bartlett Mfg. Co., Detroit, Mich.  
Walter E. Clark & Son, Milford, Conn.  
Henry Disston & Sons, Philadelphia, Pa.  
A. M. Leonard & Son, Piqua, Ohio  
Remington Arms Co., Bridgeport, Conn.  
Carroll R. Tiffany, Conklin, N.Y.  
Edwin C. Tyson, Florida Dale, Pa.

### Lanterns, Grafting

M. H. Hunt & Son, Lansing, Mich.  
A. M. Leonard & Son, Piqua, Ohio  
Edwin C. Tyson, Florida Dale, Pa.  
A. G. Woodman Co., Grand Rapids, Mich.

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Walter E. Clark & Son, Milford, Conn.  
A. M. Leonard & Son, Piqua, Ohio  
Rollin H. Tabor, Mt. Vernon, Ohio

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**GROWTH STIMULATING CHEMICALS**  
American Chemical Paint Co., Ambler, Pa.

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Atkins & Durbrow, Inc., New York, N.Y.  
Domestic Peat Co., Centerville, Maine  
Dunlop Sales Co., Minneapolis, Minn.  
Maine Peat Moss, Inc., Jonesport, Maine  
Minnesota Horticultural Peat & Litter Co., Minneapolis, Minn.  
New Amsterdam Import & Supply Co., New York, N.Y.  
Peter Patterer, Inc., Battle Creek, Mich.  
Peat Import Corp., New York, N.Y.  
Peat Institute of America, New York, N.Y.  
Premier Peat Moss Corp., New York, N.Y.

### ROOT FORMING CHEMICALS

American Chemical Paint Co., Ambler, Pa.  
Merck & Co. Inc., Rahway, N.J.

### WAX EMULSIONS

Dow Chemical Co., Midland, Mich.

### Pruners

American Fork & Hoe Co., Cleveland, Ohio  
E. C. Atkinson & Co., Indianapolis, Ind.  
Bartlett Mfg. Co., Detroit, Mich.  
Henry Disston & Sons, Philadelphia, Pa.  
A. M. Leonard & Son, Piqua, Ohio  
H. K. Porter, Inc., Everett, Mass.  
Wm. Schollhorn Co., New Haven, Conn.  
Seymour Smith & Son, Inc., Oakville, Conn.  
Carroll R. Tiffany, Conklin, N.Y.  
Edwin C. Tyson, Florida Dale, Pa.  
Wells & Wade, Wenatchee, Wash.  
J. Wiss & Sons Co., Newark, N.J.

### POINTCUT PRUNER

Power, speed and clean cutting make this fine orchard tool. Cuts up to 1 1/4" green wood. Fast cutting on sprout and sucker growth at the point. Both edges cut without stripping bark or crushing fibers. A precision tool made to give long service.



## PORTER PRUNERS

SEND for catalog. Shows full line. Special pruners for orchards—peach, citrus, pecan, etc. Tells you why Porter Pruners cut faster, cleaner—why they stand up under hard service.

**H. K. PORTER, Inc.** Everett, Mass.

AMERICAN FRUIT GROWER

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Hercules Powder Co., Wilmington, Del.  
M. H. Hunt & Son, Lansing, Mich.

### Saws

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Bartlett Mfg. Co., Detroit, Mich.  
Henry Disston & Sons, Philadelphia, Pa.  
A. M. Leonard & Son, Piqua, Ohio  
Seymour Smith & Son, Inc., Oakville, Conn.

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E. C. Atkins & Co., Indianapolis, Ind.  
Bartlett Mfg. Co., Detroit, Mich.  
Clyde Cutlery Co., Clyde, Ohio  
Henry Disston & Sons, Philadelphia, Pa.  
A. M. Leonard & Son, Piqua, Ohio  
Peck, Stow & Wilcox Co., Southington, Conn.  
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Rhodes Mfg. Co., Grand Rapids, Mich.  
Wm. Schollhorn Co., New Haven, Conn.  
Seymour Smith & Son, Inc., Oakville, Conn.  
Carroll R. Tiffany, Conklin, N.Y.  
Edwin C. Tyson, Florida Dale, Pa.  
J. Wiss & Sons Co., Newark, N.J.

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Bartlett Mfg. Co., Detroit, Mich.  
Hill Top Orchards & Nurseries, Hartford, Mich.

### Wax

John Bacon Inc., Gasport, N.Y.  
Bartlett Mfg. Co., Detroit, Mich.  
Clarion Development Co., Inc., Clarion, Pa.  
M. H. Hunt & Son, Lansing, Mich.  
Interstate Chemical Mfg. Co., Reading, Pa.  
A. M. Leonard & Son, Piqua, Ohio  
Standard Oil Co. of Indiana, Chicago, Ill.  
Rollin H. Tabor, Mt. Vernon, Ohio  
Edwin C. Tyson, Florida Dale, Pa.  
A. G. Woodman Co., Grand Rapids, Mich.

### Wound Dressings

Bartlett Mfg. Co., Detroit, Mich.  
Carbolineum Wood Preserving Co., Milwaukee, Wis.  
C.A.-Wood Preserver Co., St. Louis, Mo.  
Celure Southern Corp., Jacksonville, Fla.  
Clarion Development Co., Clarion, Pa.  
Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.  
Flintkote Co., New York, N.Y.  
Joseph A. Fraim Co., Norfolk, Va.  
Hill Top Orchards & Nurseries, Hartford, Mich.  
Interstate Chemical Mfg. Co., Reading, Pa.  
A. M. Leonard & Son, Piqua, Ohio  
Lowe Brothers Co., Dayton, Ohio  
Sherwin-Williams Co., Cleveland, Ohio  
Southport Paint Co., Inc., Savannah, Ga.  
Rollin H. Tabor, Mt. Vernon, Ohio  
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### TRouble-FREE PRUNING

Nothing to pinch the hand



This Drop Forged Tool Steel nine inch Hand Pruner has a crucible steel blade and hardened hook. Unsurpassed. Special price \$3.25 less 10% prepaid. Ask for catalog showing a complete line of pruning tools, shears, saws, scrapers, etc.

**PRUNING COMPOUND**  
For destroying and preventing the growth of wood destroying fungi and for the protection of wounds, use Bartlett Tree Paint. Easily applied with ordinary paint brush. \$1.50 per gallon.

**BARTLETT MFG. CO.** Detroit, Mich.

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## EVERYTHING FOR THE ORCHARD

PRUNING, GRAFTING, BUDDING TOOLS—Knives, Saws, Shears, Hand and Pole Pruners, Waxes, Wax Melters, Raffia, Rubber Budding Strips, J. & J. Nursery Tape, Tree Seal, Tree Kote, Sa-Va-Tree, Hormodin, Peat Moss, Tree Surgeon Supplies, E-Z "C" Tree Protector. State requirements and ask for Special Literature. No General Catalog.

**EDWIN C. TYSON, FLORA DALE, PA.**  
See Advs. Pages 18, 38

## SEECOS SAVE TREES

Save the heavy loss from trunk splitting and broken limbs. Save time, money and labor, propping. The strongest, simplest, safest and cheapest tree brace ever made. 15c can save a \$100.00 tree. Send today for FREE sample and low prices.

**HILL TOP ORCHARDS AND NURSERIES**  
Box A-4, Hartford, Mich.

**GRAFTWAX—TREE HEALANT** Heals pruned stubs, diseases, blights, wounds. Waterproof, adhesive. Excellent in grafting. Hastens union of stock and scion. **SMEARED ON COLD.** Scions dipped in melted Graftwax keep indefinitely, prolonging grafting season. Curative tree cavity filler. **GRAFTWAX SEALS AND HEALS.** 1 lb., 60c. 2 to 6 lbs. 50c lb. 12 lbs., \$5.00. Postpaid. Free Sample.

CLARION DEVELOPMENT COMPANY, INC., Dept. A, Clarion, Pa.

JUNE 1949

## SOIL MANAGEMENT

### Fertilizers

#### AGRICULTURAL LIME

American Lime & Stone Co., Bellefonte, Pa.  
Gibsonburg Lime Products Co., Gibsonburg, Ohio  
Kimbalton Lime Co., Inc., Shawsville, Va.  
Marblehead Lime Co., Chicago, Ill.  
Ohio Hydrate & Supply Co., Woodville, Ohio  
Scioto Lime & Stone Co., Delaware, Ohio  
United States Gypsum Co., Chicago, Ill.  
Woodville Lime Products Co., Toledo, Ohio

#### AMMONIUM PHOSPHATE

American Cyanamid Co., Fertilizer Div., New York, N.Y.

#### BORAX

American Potash & Chemical Corp., New York, N.Y.  
Pacific Coast Borax Co., New York, N.Y.

#### CALCIUM CYANAMID

American Cyanamid Co., Fertilizer Div., New York, N.Y.

#### CALCIUM NITRATE

Miller Chemical & Fertilizer Corp., Baltimore, Md.  
Synthetic Nitrogen Products Corp., New York, N.Y.

#### GYPSPUM

American Gypsum Co., Port Clinton, Ohio  
United States Gypsum Co., Chicago, Ill.

#### MAGNESIUM SULPHATE

American Cyanamid Co., Fertilizer Div., New York, N.Y.

#### ARMOUR FERTILIZER WORKS, ATLANTA, GA.

Braun-Knecht-Heimann-Co., San Francisco, Calif.

#### DOW CHEMICAL CO., MIDLAND, MICH.

E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.

#### GENERAL CHEMICAL CO., NEW YORK, N.Y.

Mallinckrodt Chemical Works, St. Louis, Mo.

#### MANGANESE SULPHATE

Braun-Knecht-Heimann-Co., San Francisco, Calif.

#### CARUS CHEMICAL CO., LA SALLE, ILL.

Alex M. McIver, Charleston, S.C.

#### MILLER CHEMICAL & FERTILIZER CORP., BALTIMORE, MD.

Tennessee Corp., Atlanta, Ga.

#### TENNESSEE EASTMAN CORP., KINGSFORD, TENN.

#### MIXED FERTILIZERS, COMMERCIAL

Armour Fertilizer Works, Atlanta, Ga.

Davison Chemical Corp., Baltimore, Md.

Federal Chemical Co., Louisville, Ky.

Miller Chemical & Fertilizer Corp., Baltimore, Md.

Stimulant Laboratories, Inc., Long Island City, N.Y.

Tennessee Corp., Atlanta, Ga.

#### NITRATE OF POTASH

Battelle & Renwick, New York, N.Y.

Miller Chemical & Fertilizer Corp., Baltimore, Md.

Md.



### ARCADIAN

The American NITRATE of SODA  
SEE YOUR FERTILIZER MAN!

#### NITRATE OF SODA

Armour Fertilizer Works, Atlanta, Ga.

Barrett Co., New York, N.Y.

Battelle & Renwick, New York, N.Y.

Chilean Nitrate Sales Corp., New York, N.Y.

Miller Chemical & Fertilizer Corp., Baltimore, Md.

Smith Agricultural Chemical Co., Columbus, Ohio

### POTASH SALTS

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American Potash Institute, Inc., Washington, D.C.

Armour Fertilizer Works, Atlanta, Ga.

N. V. Potash Export My., Inc., New York, N.Y.

Potash Co. of America, Baltimore, Md.

Smith Agricultural Chemical Co., Columbus, Ohio

U. S. Potash Co., New York, N.Y.

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**Domestic SULPHATE of AMMONIA**  
**20.5% NITROGEN**  
**SEE YOUR FERTILIZER MAN!**

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Miller Chemical & Fertilizer Corp., Baltimore, Md.

Smith Agricultural Chemical Co., Columbus, Ohio

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Miller Chemical & Fertilizer Corp., Baltimore, Md.

National Sulphur Co., Inc., New York, N.Y.

Stauffer Chemical Co., New York, N.Y.

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Miller Chemical & Fertilizer Corp., Baltimore, Md.

Smith Agricultural Chemical Co., Columbus, Ohio

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Agricultural Laboratories, Inc., Columbus, Ohio

Albert Dickinson Co., Chicago, Ill.

Edwards Laboratory, Lansing, Mich.

Kalo Inoculant Co., Quincy, Ill.

Nitragin Co., Milwaukee, Wis.

Urbana Laboratories, Urbana, Ill.

### Mesh Fabric, Soil Retention

Bemis Bro. Bag Co., St. Louis, Mo.

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Excelsior Mills Corp., Jacksonville, Fla.

Hinde & Dauch Paper Co., Sandusky, Ohio

International Paper Co., New York, N.Y.

Keith's Plant Nursery, Sawyer, Mich.

Paterson Parchment Paper Co., Passaic, N.J.

West Virginia Pulp & Paper Co., New York, N.Y.

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Atkins & Durbrow, Inc., New York, N.Y.

Domestic Peat Co., Centerville, Maine

Maine Peat Moss Inc., Jonesport, Maine

Minnesota Horticultural Peat & Litter Co., Minneapolis, Minn.

New Amsterdam Import & Supply Co., New York, N.Y.

Peter Patierer, Inc., Battle Creek, Mich.

Peat Import Corp., New York, N.Y.

Peat Institute of America, New York, N.Y.

Premier Peat Moss Corp., New York, N.Y.

### Soil Testing Outfits

Edwards Laboratory, Lansing, Mich.

Sudbury Soil Testing Laboratory, Sudbury, Mass.



**FRUIT GROWERS**  
USE GRANULAR  
**'AERO' CYANAMID**

*Because —*

### IT IS RICH

Granular AERO Cyanamid is a rich material — 21% nitrogen and 70% hydrated lime. Hence, there is little useless weight to handle.

### IT IS ECONOMICAL

Granular AERO Cyanamid offers positive purchase-economy on the basis of cost-per-pound of nitrogen.

### IT IS NON-LEACHING

Granular AERO Cyanamid supplies nitrogen in a form which is not easily leached out of the soil.

### IT SWEETENS THE SOIL

Granular AERO Cyanamid supplies nitrogen in combination with a large amount of lime, which sweetens the soil. No other nitrogen carrier on the market leaves such a beneficial residue.

### IT IS EASY TO APPLY

Granular AERO Cyanamid is a dry, free-flowing material, ideally adapted to accurate broadcast distribution by hand or by machine.



Write for  
Leaflet F-142

**AMERICAN**  
**CYANAMID COMPANY**  
30 ROCKEFELLER PLAZA NEW YORK N. Y.

## ORCHARD INSTRUMENTS

### Barometers

Bristol Co., Waterbury, Conn.  
Fleischhauer, Fr., & Son, Hollis, N.Y.  
Precision Thermometer & Instrument Co., Philadelphia, Pa.  
Scientific Instrument Co., Detroit, Mich.  
Taylor Instrument Co., Rochester, N.Y.

### Hydrometers

Eimer & Amend, New York, N.Y.  
Fleischhauer, Fr., & Son, Hollis, N.Y.  
H-B Instrument Co., Philadelphia, Pa.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
E. W. Schultheis, Brooklyn, N.Y.  
Taylor Instrument Co., Rochester, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

### Hygrometers

Bristol Co., Waterbury, Conn.  
Eimer & Amend, New York, N.Y.  
H-B Instrument Co., Philadelphia, Pa.  
Precision Thermometer & Instrument Co., Philadelphia, Pa.  
Taylor Instrument Co., Rochester, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

### Levels

Dortrom-Brady Mfg. Co., Atlanta, Ga.  
Exact Level & Tool Mfg. Co., High Bridge, N.J.  
Kolesch & Co., New York, N.Y.

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American Optical Co., Southbridge, Mass.  
Bausch & Lomb Optical Co., Rochester, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Carl Zeiss, Inc., New York, N.Y.

### Microscopes

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Eimer & Amend, New York, N.Y.  
Spencer Lens Co., Buffalo, N.Y.  
Carl Zeiss, Inc., New York, N.Y.

### Testers, Fruit Pressure

D. Ballauf Mfg. Co., Washington, D.C.  
John Chattillon & Sons, New York, N.Y.

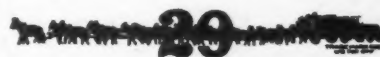
### Thermometers

Bristol Co., Waterbury, Conn.  
Eimer & Amend, New York, N.Y.  
Frick Company, Waynesboro, Pa.  
H-B Instrument Co., Philadelphia, Pa.  
Taylor Instrument Co., Rochester, N.Y.

### Thermostats

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General Electric Co., Schenectady, N.Y.  
H-B Instrument Co., Inc., Philadelphia, Pa.  
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AMERICAN FRUIT GROWER



### BORAX-BORIC ACID

Borax or Boric Acid—for the effective control of BORON DEFICIENCY DISORDERS in apple orchards.

WRITE US FOR PRICES  
AND INFORMATION

**PACIFIC COAST BORAX CO.**

51 Madison Ave., New York City

# FREE!

## THIS FINE HIGH QUALITY GRAFTING KNIFE

To acquaint more orchard-ists with the labor-sav-ing fea-tures of the origi-nal



FOR A LIMITED TIME ONLY

## "Wenatchee" FRUIT PICKING BAGS



Write us for information about the original "Wenatchee" Fruit Picking Bag, that saves fruit and profit for growers by preventing bruises and stem punctures.

You must be the operator of an orchard and must also send us the name of your orchard supply dealer in order to get this grafting knife free.

• WRITE A LETTER TODAY •

**SCHEFFER & ROSSUM CO.**  
MANUFACTURERS

ST. PAUL • MINNESOTA

## LADDERS FOR FRUIT PICKING

Direct from Factory to You

BAUER Ladders for every purpose are famous for quality. Special designs for fruit pickers have important construction features, such as Countersunk Rungs and Double-Dipped Tenons, making them stronger and last longer. Write for prices and complete information.

**Bauer Mfg. Co.**  
Wooster, Ohio



## HEIDER 2WAY STEP AND STRAIGHT LADDERS



New kind of ladder for spraying, pruning or picking fruit. Also furnished with STRAIGHT LEG and STRAIGHT TOP. ALL steps and rungs BODDED with 1/4" red. Very rigid. Made in five sizes. Makes an ideal FRUIT or general purpose ladder. HEIDER famous for Straight, Extension and Step Ladders, Extension Planks, Ladder Jacks, etc. Ask your dealer or write us.

**HEIDER MANUFACTURING CO.**  
Box 511, Carroll, Iowa

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Miller Rubber Co., Akron, Ohio  
Republic Rubber Co., Youngstown, Ohio  
Seattle Tent & Awning Co., Seattle, Wash.

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John Bean Mfg. Co., Lansing, Mich.  
Burch Mfg. & Sheet Metal, Lawrence, Mich.  
Corona Clipper Co., Corona, Calif.  
Cyclone Seeder Co., Urbana, Ind.  
Fulton Bag & Cotton Mills, Atlanta, Ga.  
Hardie Mfg. Co., Portland, Ore.  
Philadelphia Blanket Co., Inc., Philadelphia, Pa.  
Scheffer & Rossum Co., St. Paul, Minn.  
M. D. Smith Tent & Awning Co., Atlanta, Ga.  
The Taylor Grader, Anna, Ill.  
Townsend Co., Lake Wales, Fla.  
Edwin C. Tyson, Flora Dale, Pa.  
Wells & Wade, Wenatchee, Wash.

### FRUIT PICKER'S BAGS AND BUCKETS



#### "CYCLONE"

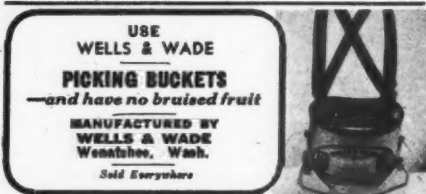
Reduce fruit bruising and increase speed of picking.  
Write for low prices.



THE CYCLONE SEEDER CO. URBANA, IND.  
CENTRAL BLDG.

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Frank L. Deane & Son, Benton Harbor, Mich.  
Edgerton Mfg. Co., Plymouth, Ind.  
Scheffer & Rossum Co., St. Paul, Minn.  
Edwin C. Tyson, Flora Dale, Pa.



USE WELLS & WADE PICKING BUCKETS

—and have no bruised fruit

MANUFACTURED BY WELLS & WADE Wenatchee, Wash.

Sold Everywhere

### Buckets

Burch Mfg. & Sheet Metal, Lawrence, Mich.  
Cyclone Seeder Co., Urbana, Ind.  
Hill Top Orchards & Nurseries, Hartford, Mich.  
Scheffer & Rossum Co., St. Paul, Minn.  
Wells & Wade, Wenatchee, Wash.

### Clippers, Fruit

Bartlett Mfg. Co., Detroit, Mich.  
Corona Clipper Co., Corona, Calif.  
Henry Diston & Sons, Philadelphia, Pa.  
Harvey Machine Co., Los Angeles, Calif.  
A. M. Leonard & Son, Piqua, Ohio  
J. Wiss & Sons Co., Newark, N.J.

### Crates, Field

Berlin Fruit Box Co., Berlin Heights, Ohio  
Berryville Basket Co., Inc., Berryville, Va.  
General Box Co., Chicago, Ill.  
Gideon-Anderson Lumber Co., St. Louis, Mo.  
Marinette & Menominee Box Co., Marinette, Wis.  
Maxwell Brothers, Inc., Chicago, Ill.  
Mell Lumber Co., Philadelphia, Pa.  
New Albany Box & Basket Co., New Albany, Ind.  
New England Box Co., New York, N.Y.  
Paducah Box & Basket Co., Paducah, Ky.  
Rathbone, Hair & Ridgway Co., Chicago, Ill.  
Smeed Box Co., Cleveland, Ohio  
Edwin C. Tyson, Flora Dale, Pa.

## RICH LADDERS

Light weight... SAFE... special construction features... cadmium plated hardware... will outlast two or three ordinary ladders... see your dealer or write.

**THE RICH LADDER & MFG. CO.**  
1025 Depot Street Cincinnati, Ohio

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Benton Ladder Co., Jackson, Mich.  
Goshen Churn & Ladder Co., Goshen, Ind.  
Heider Mfg. Co., Carroll, Iowa  
Inland Mfg. Co., Oakland, Calif.  
Larson Ladder Co., San Jose, Calif.  
Los Angeles Ladder Co., Los Angeles, Calif.  
Michigan Ladder Co., Ypsilanti, Mich.  
H. L. Patton, Jewett, Ohio  
Rich Pump & Ladder Co., Cincinnati, Ohio  
Safety Ladder Co., E. Hartford, Conn.  
Tilly Ladder Co., Watervliet, N.Y.  
George C. Topping Ladder Co., Marion, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Zoss Ladder & Mfg. Co., Portland, Ore.

### Pickers, Fruit

Bartlett Mfg. Co., Detroit, Mich.  
Success Fruit Picker Co., Clint, Texas

### Straps

John Bacon Inc., Gasport, N.Y.



## Success Fruit Pickers

Less equipment, less waste, less broken bones. Pear picker leaves stems on fruit. Pear picker (without pole) sent prepaid in U.S. for 6 names and \$1.35.

**SUCCESS FRUIT PICKER CO.**  
CLINT, TEXAS



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☐ Leghorn World...1 yr.  
☐ Mother's Home Life...1 yr.  
☐ National Live Stock Producer...1 yr.  
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- NAPHTHALENE ACETIC ACID •
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(Naphthalene Acetic Acid  
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Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
Sherwin-Williams Co., Cleveland, Ohio

## FENCING AND TRELLISES

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Iwan Bros., South Bend, Ind.  
Kitselman Bros., Muncie, Ind.

### Diggers

Henry Disston & Sons, Inc., Philadelphia, Pa.  
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### Gates

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Anchor Post Fence Co., Baltimore, Md.  
Brown Fence & Wire Co., Cleveland, Ohio  
Continental Steel Corp., Kokomo, Ind.  
Cyclone Fence Co., Waukegan, Ill.  
Interlocking Fence Co., Morton, Ill.  
Kitselman Bros., Muncie, Ind.  
Wickwire Spencer Steel Co., New York, N.Y.

### Posts

Brown Fence & Wire Co., Cleveland, Ohio  
Calumet Steel Co., Chicago, Ill.  
Interlocking Fence Co., Morton, Ill.  
Kitselman Bros., Muncie, Ind.  
Page Steel & Wire Div., American Chain Co., Inc., Monessen, Pa.

### Wire

American Steel & Wire Co., Cleveland, Ohio  
Bethlehem Steel Co., Bethlehem, Pa.  
Brown Fence & Wire Co., Cleveland, Ohio  
Continental Steel Corp., Kokomo, Ind.  
Interlocking Fence Co., Morton, Ill.  
Kitselman Bros., Muncie, Ind.  
Page Steel & Wire Div., American Chain Co., Inc., Monessen, Pa.  
Pittsburgh Steel Co., Pittsburgh, Pa.  
Republic Steel Corp., Chicago, Ill.  
Wheeling Corrugating Co., Wheeling, W. Va.  
Wickwire Spencer Steel Co., New York, N.Y.

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Bowker Chemical Co., New York, N.Y.  
Carbolignum Wood Preserving Co., Milwaukee, Wis.  
C-A Wood Preserver Co., St. Louis, Mo.  
Celcure Southern Corp., Jacksonville, Fla.  
Certain-Teed Products Co., New York, N.Y.  
Chipman Chemical Co., Inc., Bound Brook, N.J.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Harshaw Chemical Co., Cleveland, Ohio  
Koppers Products Co., Pittsburgh, Pa.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Rohm & Haas Co., Philadelphia, Pa.  
Sherwin-Williams Co., Cleveland, Ohio  
Stauffer Chemical Co., New York, N.Y.  
Tennessee Eastman Corp., Kingsport, Tenn.

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Bore holes for many purposes and in a number of diameters. Your special and favorite trees can be nourished by boring small holes to the roots for deposit of fertilizer.

Fence in your orchard for protection against intruders and your live stock.

Use this tool which is built for proper hole boring. Made in sizes from 2 to 16 inches.

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Write us for information on our complete line

**IWAN BROTHERS**

1509 Prairie Ave., South Bend, Indiana



The Apple  
that wouldn't  
let **GO!**

## IS THE ONE THAT MADE A PROFIT

Keep the apples on your trees until harvest—and until they get the full color that always brings top prices. You can prevent pre-harvest drop with FRUITONE. Field tests made last year on more than twenty varieties of apple trees showed that hormone chemicals of our manufacture reduced drop from an average of 66.2% to 15.8%. Examination this spring showed that these trees were vigorous and normal in every respect.

**FRUITONE**

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The Hormone Spray Stops Preharvest Drop

This new powder contains, in the same high purity, the synthetic hormones which have been found by the Bureau of Plant Industry of the United States Department of Agriculture to be the most effective in preventing premature drop of apples. One spray with FRUITONE will reduce the preharvest drop to a minimum and hold the apples on the tree until they attain their full color.

*Because of the heavy demand for FRUITONE, rush deliveries cannot be guaranteed. To assure your supply, place your order immediately. Write for prices, stating the number of trees and their age.*

**AMERICAN CHEMICAL PAINT COMPANY**

Horticultural Division AF-2

Ambler, Pa.



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NAPHTHALENE-ACETIC  
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NOW AVAILABLE  
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## STANDARDS OF QUALITY

Sherwin-Williams now offers growers everywhere the NEW STOP-DROP SPRAY for preventing pre-harvest drop of apples. STOP-DROP contains the plant hormones or growth substances of proved effectiveness in holding apples on the tree while they take on EXTRA COLOR, EXTRA SIZE and EXTRA QUALITY for EXTRA PROFITABLE MARKETING. STOP-DROP is made to the standards found by the Bureau of Plant Industry, United States Department of Agriculture, to be most effective in stopping pre-harvest drop of apples. STOP-DROP, an orange colored liquid, is offered in 1 and 5 gallon cans. One gallon will make 800 gallons of spray—easy to mix.

Write for prices and further details  
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**THE SHERWIN-WILLIAMS Co.**

Insecticide Department

101 Prospect Avenue

Cleveland, Ohio



# TILLAGE EQUIPMENT



## Basin Listers

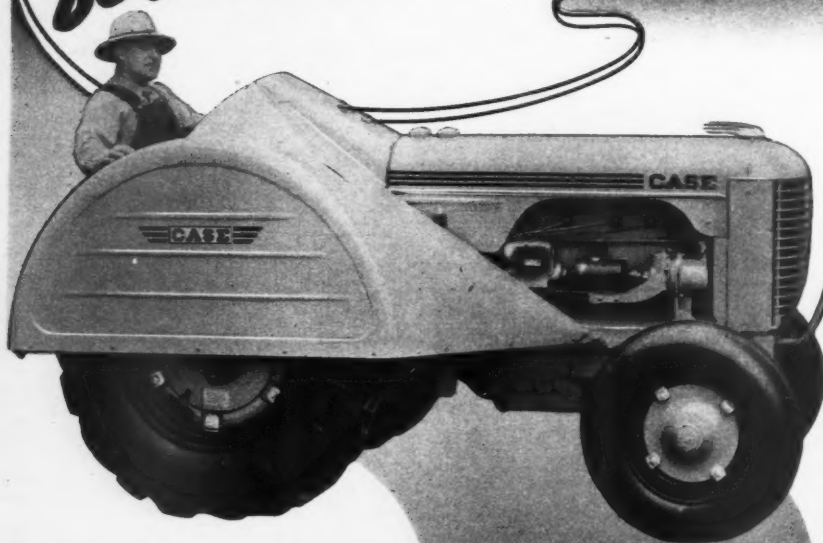
Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
B. F. Avery & Sons Co., Inc., Louisville, Ky.  
J. I. Case Co., Racine, Wis.  
Chase Plow Co., Lincoln, Nebr.  
John Deere, Moline, Ill.  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
Minneapolis-Moline Power Implement Co.,  
Minneapolis, Minn.  
Oliver Farm Equipment Sales Co., Chicago, Ill.

## Cultivators and Harrows

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Athens Plow Co., Athens, Tenn.  
Barker Mfg. Co., David City, Nebr.  
Blount Plow Works, Evansville, Ind.  
Bradley Mfg. Works, Bradley, Ill.  
J. I. Case Co., Racine, Wis.  
Centaur Tractor Corp., Greenwich, Ohio  
Cleveland Tractor Co., Cleveland, Ohio  
Cutaway Harrow Co., Higganum, Conn.  
John Deere, Moline, Ill.

Dempster Mill Mfg. Co., Beatrice, Nebr.  
Farm Tools, Inc., Mansfield, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Ferguson-Sherman Mfg. Corp., Dearborn, Mich.  
Fresno Agricultural Works, Fresno, Calif.  
General Implement Co., Cleveland, Ohio  
Handy Harrow Co., Peoria, Ill.  
Hussey Plow Co., N. Berwick, Maine  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
Minneapolis-Moline Power Implement Co., Min-  
neapolis, Minn.  
Nash-Aeme Harrow Co., Haddonfield, N.J.  
Ohio Cultivator Co., Bellevue, Ohio  
Oliver Farm Equipment Sales Co., Chicago, Ill.  
J. D. Tower & Sons Co., Mendota, Ill.  
Towner Mfg. Co., Santa Ana, Calif.  
Utilitor Co., Miamisburg, Ohio  
Wiard Plow Co., Batavia, N. Y.

*Look at the Latest  
for ORCHARD CARE*



Here's the answer to your problem of getting more work done, doing it better, and doing it at lower cost. This new Case "DO" tractor has four speeds forward—a special low gear for non-stop spraying, a high gear for fast hauling, two gears between to make the most of eager power in every type of tillage. Its swinging drawbar and toe-touch brakes make short turns quick and easy with full load.

Fuel-Miser carburetion gives peak power and low fuel consumption with the same setting. The famous Case Power-Saving Transmission and pressure-oiled clutch stand guard against upkeep expense in the power application zone.

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Let your Case dealer show you the "DO" . . . why it gets more work done than tractors weighing much more . . . how handy to operate, how easy to care for. Be sure to send in the coupon.

**Low Speed  
Spraying Gear**

**New Cockpit  
Cowling**

**CASE**

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or nearest branch: Send me books or folders on

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Name

Address

## Drills, Seed

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
John Deere, Moline, Ill.  
A. B. Farquhar Co., Ltd., York, Pa.  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
Minneapolis-Moline Power Implement Co., Min-  
neapolis, Minn.  
Oliver Farm Equipment Sales Co., Chicago, Ill.  
Ontario Drill Co., East Rochester, N.Y.  
Peoria Drill & Seeder Co., Peoria, Ill.

## Explosives

Atlas Powder Co., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Wilmington,  
Del.  
Hercules Powder Co., Wilmington, Del.

## Fertilizer Distributors

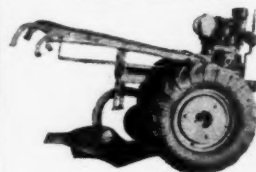
J. I. Case Co., Racine, Wis.  
Cyclone Seeder Co., Urbana, Ind.  
John Deere, Moline, Ill.  
Farm Tools, Inc., Mansfield, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Frick Company, Waynesboro, Pa.  
Hampshire Implement Co., Hatfield, Mass.  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
New Idea Co., Inc., Coldwater, Ohio  
Ohio Cultivator Co., Bellevue, Ohio  
Oliver Farm Equipment Sales Co., Chicago, Ill.  
Ontario Drill Co., E. Rochester, N.Y.  
Smith Agricultural Chemical Co., Columbus,  
Ohio  
Andrew Wilson, Inc., Springfield, N.J.

## Hoes, Grape and Berry

John Deere, Moline, Ill.

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**30% More Traction With Our  
Patented Front Hitch**



As the load in-  
creases so does  
the traction. A  
two wheel trac-  
tor that will  
work along  
with a good  
team of horses.  
Powered with a  
4.7 H.P. Briggs  
and Stratton  
motor.

The Bready develops its own traction and is capable of plowing a furrow 14" wide and 8" deep under any reasonably normal condition, and will plow 2 to 3 acres per day.

Equipment consists of all tools for general farming, such as plowing, fitting, cultivation, planting, mowing, belt work, etc. Ideal for fruit growers, poultry men, nurseries, florists, small farms and gardeners. Backed by 20 years of Bready engineering.

Write for literature explaining the many advantages of the patented front hitch

**BREADY TRACTOR AND IMPLEMENT CO.**  
201 Aurora Rd. Solon, Ohio

## TILLAGE EQUIPMENT

### Mowers

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
B. F. Avery & Sons Co., Louisville, Ky.  
J. I. Case Co., Racine, Wis.  
Centaur Tractor Corp., Greenwich, Ohio  
John Deere, Moline, Ill.  
Farm Tools, Inc., Mansfield, Ohio  
Huber Mfg. Co., Marion, Ohio  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.  
Ohio Cultivator Co., Bellevue, Ohio  
Oliver Farm Equipment Sales Co., Chicago, Ill.

### Plows, Disc and Moldboard

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Blount Plow Works, Evansville, Ind.  
Bradley Mfg. Works, Bradley, Ill.  
Bucher & Gibbs Plow Co., Philadelphia, Pa.  
J. I. Case Co., Racine, Wis.  
Centaur Tractor Corp., Greenwich, Ohio  
Collins Plow Co., Quincy, Ill.  
Cutaway Harrow Co., Higganum, Conn.  
John Deere, Moline, Ill.  
Empire Plow Co., Cleveland, Ohio  
Farm Tools, Inc., Mansfield, Ohio  
Ferguson-Sherman Mfg. Corp., Dearborn, Mich.  
Frick Company, Waynesboro, Pa.  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.  
Ohio Cultivator Co., Bellevue, Ohio  
Oliver Farm Equipment Sales Co., Chicago, Ill.  
Parker Plow Co., Richmond, Mich.  
Uttitor Co., Miamisburg, Ohio  
Wayne Agricultural Works, Inc., Goldsboro, N.C.  
Wiard Plow Co., Batavia, N.Y.

### Radiator Cleaners

Hygienic Products Co., Canton, Ohio

### Sowers, Hand Seed

Cyclone Seeder Co., Urbana, Ind.

### Stump Pullers

Hercules Mfg. Co., Centerville, Iowa  
Kirstin Co., Escanaba, Mich.  
Puljack Mfg. Corp., Englewood, N.J.

### Tire Pumps and Accessories

#### ADAPTERS

Firestone Tire & Rubber Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Inc., Akron, Ohio  
F. E. Myers & Bro. Co., Ashland, Ohio

#### CALCIUM CHLORIDE

American Cyanamid & Chemical Corp., New York, N.Y.  
Braun-Knecht-Heimann-Co., San Francisco, Calif.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Gracelli Chemicals Dept., Wilmington, Del.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Merck & Co., Inc., Rahway, N.J.  
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.  
Solvay Sales Corp., New York, N.Y.  
Stauffer Chemical Co., New York, N.Y.  
Texas Co., New York, N.Y.

#### GAUGES, LOW PRESSURE

Drugs Bros. Mfg. Co., Oakland, Calif.  
Improved Gauge Mfg. Co., Syracuse, N.Y.  
Moto Meter Gauge & Equip. Corp., Toledo, Ohio  
Pierce, Butler & Pierce Mfg. Corp., New York, N.Y.  
A. Schrader's Son Div., Brooklyn, N.Y.  
Service Station Equip. Co., Conshohocken, Pa.

#### PUMP, AIR

John Deere, Moline, Ill.

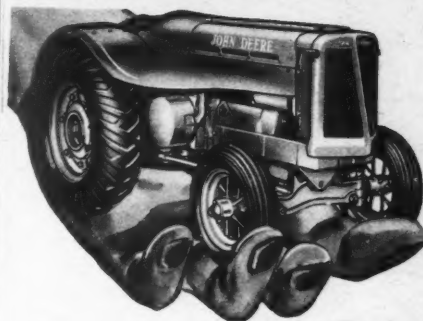
#### PUMPS, SOLUTION

Dobbins Mfg. Co., No. St. Paul, Minn.  
Firestone Tire & Rubber Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Inc., Akron, Ohio  
F. E. Myers & Bro. Co., Ashland, Ohio

### Tires, Pneumatic

Firestone Tire & Rubber Co., Akron, Ohio  
Fisk Tires Division of U. S. Tire Dealers Corp., Chicopee Falls, Mass.  
General Tire & Rubber Co., Akron, Ohio  
Gillette Rubber Co., Eau Claire, Wis.  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Inc., Akron, Ohio  
Kelly-Springfield Tire Co., Cumberland, Md.  
Lee Tire & Rubber Corp., Conshohocken, Pa.  
Seiberling Rubber Co., Akron, Ohio  
United States Rubber Co., Detroit, Mich.

**TOPS**  
**IN EVERY**  
**FEATURE**  
**YOU WANT**



Economy of operation . . . dependability of performance . . . simplicity of construction . . . ease of handling—these are all features you want in the tractor you buy. They are the features you get in a John Deere Grove or Orchard Tractor.

Get up on one . . . a push forward on the hand clutch . . . you're off. There are some low-hanging branches just ahead. You'll slip under them without injury to trees, blossoms, or fruit.

You come to a tough spot. With John Deere's smooth, unfaltering power you'll romp right through it. At the end of the row you can cut close as you turn. With its foot-controlled differential brakes, this outfit just about turns on a dime.

You'll like a John Deere Tractor still more when you check its economy. Because of two-cylinder engine design it burns the low-cost fuels successfully and efficiently.

Why not phone your John Deere dealer today. Arrange for a demonstration of the Model "AO" (shown above) which handles two 16-inch bottoms in average soil, or of the Model "BO" which handles two 14-inch bottoms. For complete information by mail write to John Deere, Moline, Illinois.

### JOHN DEERE MODEL "L"



Here is the one-cylinder Model "L," an efficient, lower-priced gasoline tractor for the small orchard and for work in vineyards and in berries.

**JOHN DEERE**  
*Two-Cylinder*  
**TRACTORS**

## ORCHARD WORK RUNS SMOOTHER

ON  
**HYATT**  
ROLLER BEARINGS

Leading builders of power sprayers, dusters, tractors, trucks and other orchard machinery use Hyatt Roller Bearings in their equipment for smoother, efficient, care-free and longer-lived operation.

Look for dependable Hyatts in the specifications of the machines you buy—it pays.

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# TILLAGE EQUIPMENT

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S. L. Allen & Co., Inc., Philadelphia, Pa.  
American Fork & Hoe Co., Cleveland, Ohio  
H. D. Hudson Mfg. Co., Chicago, Ill.  
A. M. Leonard & Son, Piqua, Ohio  
Union Fork & Hoe Co., Columbus, Ohio

## Tractor Chains

American Chain Div., American Chain & Cable Co., Inc., Bridgeport, Conn.  
Baldwin-Duckworth Chain Corp., Springfield, Mass.  
Chain Belt Co., Milwaukee, Wis.  
Columbus-McKinnon Chain Co., Tonawanda, N.Y.  
Link-Belt Co., Chicago, Ill.  
Taylor Chain Co., Hammond, Ind.

## Tractors, Continuous Tread

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Caterpillar Tractor Co., Peoria, Ill.  
Cleveland Tractor Co., Cleveland, Ohio  
International Harvester Co., Chicago, Ill.

## Tractors, Garden

S. L. Allen & Co., Inc., Philadelphia, Pa.  
Allied Motors Corp., Minneapolis, Minn.  
American Farm Machinery Co., Minneapolis, Minn.  
Bolens Mfg. Co., Port Washington, Wis.  
Brady Tractor Co., Solon, Ohio  
Centaur Tractor Corp., Greenwich, Ohio  
John Deere, Moline, Ill.  
Gravely Motor Plow & Cult. Co., Dunbar, W. Va.

New Beeman Tractor Co., Minneapolis, Minn.  
Ohio Cultivator Co., Bellevue, Ohio  
Pioneer Mfg. Co., West Allis, Wis.  
Pond Garden Tractor Co., Ravenna, Ohio  
Shaw Mfg. Co., Galesburg, Kans.  
Simplicity Mfg. Co., Port Washington, Wis.  
Standard Engine Co., Minneapolis, Minn.  
Universal Mfg. Co., Indianapolis, Ind.  
Utilitor Co., Miamisburg, Ohio  
Walsh Tractor Co., Minneapolis, Minn.

## Tractors, Wheel

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
J. I. Case Co., Racine, Wis.  
Centaur Tractor Corp., Greenwich, Ohio  
Cleveland Tractor Co., Cleveland, Ohio  
John Deere, Moline, Ill.  
Fate-Root-Heath Co., Plymouth, Ohio  
Ferguson-Sherman Mfg. Corp., Dearborn, Mich.  
Ford Motor Co., Dearborn, Mich.  
Frick Company, Waynesboro, Pa.  
Huber Mfg. Co., Marion, Ohio  
International Harvester Co., Chicago, Ill.  
Massey-Harris Co., Racine, Wis.  
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.  
Oliver Farm Equipment Sales Co., Chicago, Ill.  
Utilitor Co., Miamisburg, Ohio

## Trailers

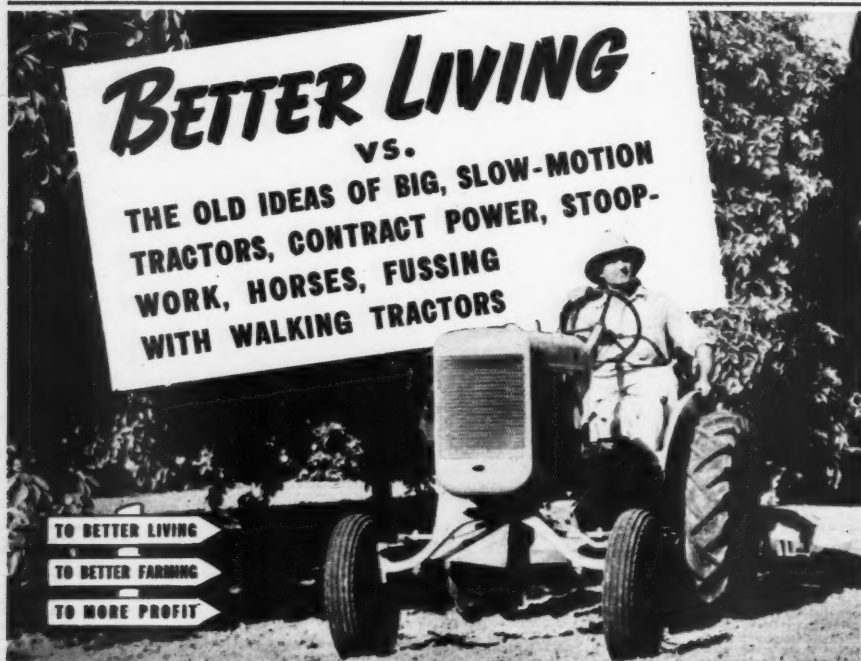
Ben Hur Trailer Div. Lavine Gear Co., Milwaukee, Wis.  
Electric Wheel Co., Quincy, Ill.  
Mullins Mfg. Co., Salem, Ohio

## Tree Moving Equipment

Chas. F. Irish Co., Inc., Cleveland, Ohio  
Williams & Harvey Nurseries Co., Kansas City, Kans.

## Weed Hogs

Babcock Mfg. Co., Leonardsville, N.Y.  
S. E. McCune & Co., New Waterford, Ohio



## MODEL B TRACTORS SOLVE FRUIT POWER PROBLEMS FOR 1 ACRE OR 1,000 ACRES

There used to be a minimum fruit acreage for owning your own tractor. If it was less than 20 acres, the old-timers shook their heads and hired contract rigs to come in. Even an authoritative university survey threw the shadow of red ink on home-owned big tractors for groves smaller than 20 acres. That was before folks heard about the Allis-Chalmers Model B Tractor.

Allis-Chalmers looked at it this way: the small acreage needs its OWN power system just as much as the 1,000-acre grove. Timing of operations is just as vital. The daily need of a tractor for odd jobs and hauling is just as constant. Hence, the Model B . . . the tractor everybody can afford. One Model B or a fleet, as the main or supplementary power, is YOUR way to BETTER LIVING . . . the Allis-Chalmers way!



**ALLIS-CHALMERS MANUFACTURING CO.**  
Dept. 16, Tractor Division, Milwaukee, Wis.  
Gentlemen: Send me FREE catalogs on units checked. I farm \_\_\_\_\_ acres.

☐ Model B Tractor ☐ Model B Implements  
☐ Model M ☐ 54 H.P. K-O Oil Tractor  
☐ Orchard Crawler ☐ Allis-Chalmers Brenneis Deep Tillage Implements

Name \_\_\_\_\_  
Town \_\_\_\_\_ State \_\_\_\_\_  
County \_\_\_\_\_

## NEW 200-HOUR Greasing System

\*Now—a major new development in the orchard Model M Crawler—POSITIVE-SEAL TRUCK WHEEL ASSEMBLY! No more delaying a half hour every day to grease truck rollers. You simply change oil, as in the crankcase. One lubrication lasts 200 working hours! Model M available with streamlined orchard fenders.

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**Standard** RIDE OR WALK  
**Garden Tractors**

Powerful 1 and 2 Cylinder Tractors for Small Farms, Gardeners, Florists, Nurseries, Fruit and Poultrymen.

**FOUR MODELS**  
Ample Power for Field, Haying and Truck Crop Tools. Run Pumps, Saws and Belt Machines.

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**LOW PRICES**  
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## FROST PROTECTION

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Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Brennan Motor Mfg. Co., Syracuse, N.Y.  
Caterpillar Tractor Co., Peoria, Ill.  
Continental Motors Corp., Detroit, Mich.  
John Deere, Moline, Ill.  
Fairbanks, Morse & Co., Chicago, Ill.  
Hercules Motor Co., Canton, Ohio  
International Harvester Co., Chicago, Ill.  
Waukesha Motor Co., Waukesha, Wis.  
Wisconsin Motor Corp., Milwaukee, Wis.  
Witte Engine Works, Inc., Kansas City, Mo.

### Indicators, Frost Alarm

W. R. Ames Co., San Francisco, Calif.  
Thwing Instrument Co., Philadelphia, Pa.

### Motors, Electric

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Fairbanks, Morse & Co., Chicago, Ill.  
General Electric Co., Schenectady, N.Y.  
Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

### Orchard Heaters

American Can Co., New York, N.Y.  
W. R. Ames Co., San Francisco, Calif.  
California Orchard Heater Co., Pomona, Calif.  
Kittle Mfg. Co., Los Angeles, Calif.  
National-Riverside Co., Riverside, Calif.  
Scheu Products Co., Ltd., Upland, Calif.

### Torches, Lighting

W. R. Ames Co., San Francisco, Calif.

### Wind Machines

Conveyor Co., Inc., Huntington Park, Calif.  
Jackson Iron Works, Huntington Park, Calif.  
Towt Co., Glendale, Calif.

# IRRIGATION AND DRAINAGE

## Couplings, Pipe

W. R. Ames Co., San Francisco, Calif.  
Champion Corp., Hammond, Ind.  
Chicago Metal Mfg. Co., Chicago, Ill.

## Ditchers

National Equipment Corp., Milwaukee, Wis.  
Owensboro Ditcher & Grader Co., Owensboro, Ky.  
Ruth Dredger Mfg. Co., Huntington Park, Calif.  
Standard Steel Works, Los Angeles, Calif.

## Explosives

Atlas Powder Co., Wilmington, Del.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Hercules Powder Co., Wilmington, Del.

## Hose, Eyelet

Mantle & Mantle, Painesville, Ohio

## ECONOMICAL IRRIGATION PAYS

LET IRRIGATION HOSE HELP SAVE YOUR CROPS from dry weather. Efficient and most economical means of distributing irrigation water. Write for literature on well made hose that does not decay. MANTLE & MANTLE, P. O. Box 107, Painesville, Ohio.

## Hose, Metal

W. R. Ames Co., San Francisco, Calif.  
Champion Corp., Hammond, Ind.  
Chicago Metal Mfg. Co., Chicago, Ill.  
Crane Co., Chicago, Ill.  
Waterseal Couplings, Ltd., Los Angeles, Calif.

## Hose, Porous

Buckeye Tent Awning & Mfg. Co., Columbus, Ohio  
Crane Co., Chicago, Ill.  
Hamilton Mfg. & Machine Co., Hamilton, Mich.  
Mantle & Mantle, Painesville, Ohio  
White Showers, Inc., Detroit, Mich.

## Hose, Rubber

Boston Woven & Rubber Hose Co., Cambridge, Mass.  
Broadway Rubber Mfg. Co., Louisville, Ky.  
Electric Hose & Rubber Co., Wilmington, Del.  
Firestone Tire & Rubber Co., Akron, Ohio  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Akron, Ohio  
Manhattan Rubber Mfg. Co., Passaic, N.J.  
Minor Rubber Co., Inc., Newark, N.J.  
Quaker City Rubber Co., Philadelphia, Pa.  
Republic Rubber Div., Lee Rubber & Tire Corp., Youngstown, Ohio  
United States Rubber Co., New York, N.Y.

## Land Leveler

Everaman Mfg. Co., Denver, Colo.  
Towner Mfg. Co., Santa Ana, Calif.

## Pipe

W. R. Ames Co., San Francisco, Calif.  
A. M. Byers Co., Pittsburgh, Pa.  
Champion Corp., Hammond, Ind.  
Chicago Metal Mfg. Co., Chicago, Ill.  
Crane Co., Chicago, Ill.  
Flint & Walling Mfg. Co., Kendallville, Ind.  
Frick Company, Waynesboro, Pa.  
March Automatic Irrigation Co., Muskegon, Mich.  
Parma Water Lifter Co., Parma, Idaho  
Skinner Irrigation Co., Troy, Ohio  
White Showers, Inc., Detroit, Mich.

## Pipe, Portable Irrigation

W. R. Ames Co., San Francisco, Calif.  
Champion Corp., Hammond, Ind.  
Chicago Metal Mfg. Co., Chicago, Ill.

## Pump Jacks

American Well Works, Aurora, Ill.  
Challenge Co., Batavia, Ill.  
Cushman Motor Works, Lincoln, Nebr.  
Deming Co., Salem, Ohio  
Dempster Mill Mfg. Co., Beatrice, Nebr.  
Fairbanks, Morse & Co., Chicago, Ill.  
Flint & Walling Mfg. Co., Kendallville, Ind.  
Hayes Pump & Planter Div. Farm Tools, Inc., Galva, Ill.  
H. D. Hudson Mfg. Co., Chicago, Ill.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Red Jacket Mfg. Co., Davenport, Iowa  
Stover Mfg. & Engine Co., Freeport, Ill.  
Witte Engine Works, Kansas City, Mo.

## Pumps, Centrifugal

American-Marsh Pumps, Inc., Battle Creek, Mich.  
American Well Works, Aurora, Ill.  
Byron Jackson Co., Berkeley, Calif.  
Dayton-Dowd Co., Quincy, Ill.  
Dayton Pump & Mfg. Co., Dayton, Ohio  
Decatur Pump Co., Decatur, Ill.  
Deming Co., Salem, Ohio  
Fairbanks, Morse & Co., Chicago, Ill.  
Goulds Pumps, Inc., Seneca Falls, N.Y.  
International Harvester Co., Chicago, Ill.  
Kewanee Private Utilities Co., Kewanee, Ill.  
Layne & Bowler Corp., Los Angeles, Calif.  
March Automatic Irrigation Co., Muskegon, Mich.  
Micro-Westco, Inc., Bettendorf, Iowa  
F. E. Myers & Bro. Co., Ashland, Ohio  
Palmer Bros., Cos Cob, Conn.  
Parma Water Lifter Co., Parma, Idaho  
Union Steam Pump Co., Battle Creek, Mich.  
Witte Engine Works, Kansas City, Mo.  
Worthington Pump & Machinery Corp., Harrison, N.J.

## Pumps, Deep and Shallow Well

American-Marsh Pumps, Inc., Battle Creek, Mich.  
American Well Works, Aurora, Ill.  
John Bean Mfg. Co., Lansing, Mich.  
Berkeley Pump Corp., Berkeley, Calif.  
Campbell & Budlong Machine Works, San Jose, Calif.  
Crane Co., Chicago, Ill.  
Dayton Pump & Mfg. Co., Dayton, Ohio  
Decatur Pump Co., Decatur, Ill.  
Deming Co., Salem, Ohio  
Dempster Mill Mfg. Co., Beatrice, Nebr.  
Domestic Engine & Pump Co., Shippensburg, Pa.  
Duro Co., Dayton, Ohio  
Fairbanks, Morse & Co., Chicago, Ill.  
Flint & Walling Mfg. Co., Kendallville, Ind.  
Goulds Pumps, Inc., Seneca Falls, N.Y.  
Kewanee Private Utilities Co., Kewanee, Ill.  
March Automatic Irrigation Co., Muskegon, Mich.  
Micro-Westco, Inc., Bettendorf, Iowa  
F. E. Myers & Bro. Co., Ashland, Ohio  
Novo Engine Co., Lansing, Mich.  
Parma Water Lifter Co., Parma, Idaho  
Peerless Pump Co., Massillon, Ohio  
Pomona Pump Co., Pomona, Calif.  
Victor Equipment Co., Los Angeles, Calif.  
Weinman Pump Mfg. Co., Columbus, Ohio  
Worthington Pump & Machinery Corp., Holyoke, N.J.

## Rams, Hydraulic

Deming Co., Salem, Ohio  
Dempster Mill Mfg. Co., Beatrice, Nebr.  
Goulds Pumps, Inc., Seneca Falls, N.Y.  
March Automatic Irrigation Co., Muskegon, Mich.  
Rife Hydraulic Engine Mfg. Co., New York, N.Y.  
Rife Ram & Pump Works, Waynesboro, Va.

## Sprinkler Systems

W. R. Ames Co., San Francisco, Calif.  
Champion Corp., Hammond, Ind.  
Chicago Metal Mfg. Co., Chicago, Ill.  
March Automatic Irrigation Co., Muskegon, Mich.  
Skinner Irrigation Co., Troy, Ohio

## Sprinklers, Overhead

W. R. Ames Co., San Francisco, Calif.  
Champion Corp., Hammond, Ind.  
Crane Co., Chicago, Ill.  
March Automatic Irrigation Co., Muskegon, Mich.  
Northwest Irrigation Co., Antigo, Wis.  
Perfection Sprinkler Co., Plymouth, Mich.  
Skinner Irrigation Co., Troy, Ohio  
White Showers, Inc., Detroit, Mich.

## Strainers

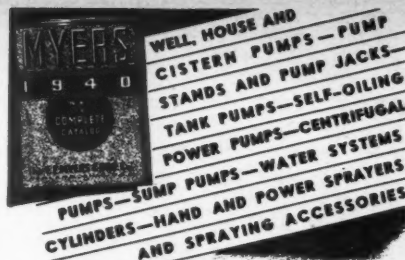
Rife Hydraulic Engine Mfg. Co., New York, N.Y.  
Thompson Mfg. Co., Los Angeles, Calif.

## Valves and Fittings

W. R. Ames Co., San Francisco, Calif.  
E. C. Atkins & Co., Indianapolis, Ind.  
Central Brass Mfg. Co., Cleveland, Ohio  
Chicago Metal Mfg. Co., Chicago, Ill.  
Crane Co., Chicago, Ill.  
Dempster Mill Mfg. Co., Beatrice, Nebr.  
Frick Company, Waynesboro, Pa.  
B. F. Goodrich Co., Akron, Ohio  
March Automatic Irrigation Co., Muskegon, Mich.  
F. E. Myers & Bro. Co., Ashland, Ohio  
Northwest Irrigation Co., Antigo, Wis.  
Quaker City Rubber Co., Philadelphia, Pa.  
Rife Hydraulic Engine Mfg. Co., New York, N.Y.  
Skinner Irrigation Co., Troy, Ohio  
Sprayer Supply Mfg. Co., Grand Rapids, Mich.  
Edwin C. Tyson, Flora Dale, Pa.

## Windmills

Aermotor Co., Chicago, Ill.  
Dempster Mill Mfg. Co., Beatrice, Nebr.  
Dultmeier Mfg. Co., Manning, Iowa  
Elgin Windmill Co., Elgin, Ill.  
Fairbanks, Morse & Co., Chicago, Ill.  
Flint & Walling Mfg. Co., Kendallville, Ind.  
Stover Mfg. & Engine Co., Freeport, Ill.  
U.S. Wind Engine Pump Co., Aurora, Ill.  
Woodmanse Mfg. Co., Freeport, Ill.



## MYERS builds PUMPS FOR EVERY PURPOSE

PUMP failures are always annoying — often expensive. Be sure that every pump you buy carries the reliable MYERS trademark and you will be certain of getting the utmost in quality, durability and efficiency. The MYERS line is the most complete of its kind in the world. Write for full information and name of the nearest MYERS dealer. Mail the handy coupon TODAY.

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Power Pumps . . . <input type="checkbox"/>	Power Sprayers . . . <input type="checkbox"/>
Pump Jacks . . . <input type="checkbox"/>	Door Hangers . . . <input type="checkbox"/>
Sump Pumps . . . <input type="checkbox"/>	Hay Unloading Tools <input type="checkbox"/>

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## OK Champion MOVABLE IRRIGATION



**OK Champion POTATO DIGGERS**  
— two and one row power diggers. Exclusive side hill steering and side hitch control. Ask for Potato Digger circular.

## Takes Dry Years Out of Farming

Defeat drought — raise more and better yields per acre. OK Champion movable irrigation has increased yields over 200% per acre. Soon pays for itself in more No. 1's — less culls. Costs as low as \$10 per acre. Write for circular.

CHAMPION CORPORATION 4730 Sheffield Ave. Hammond, Indiana

## IRRIGATE! PORTABLE SURFACE PIPE

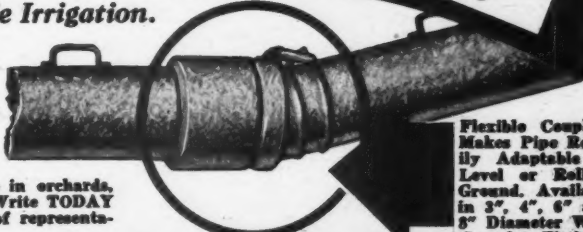
Flood, Furrow, or Part-O-Rain Sprinkling. 8 lbs. spreads 35 ft. 3" up to 200, 4" up to 450 ft. 1 inch, or 2 inch, per hour. Even distribution. Describe your problem. Folder on request.

W. R. AMES CO. 150 Hooper Street San Francisco, California

## FLEX-O-SEAL QUICK COUPLING PIPE

Adds New Efficiency And Economy To Portable Irrigation.

Why gamble on the weather, when you can convey adequate moisture to your crops at low cost with this revolutionary 1 1/2" weight Pipe. Handles at each end make it easy to carry. Thousands of feet now in use in orchards, on vegetable farms, etc. Write TODAY for literature and name of representative nearest you.

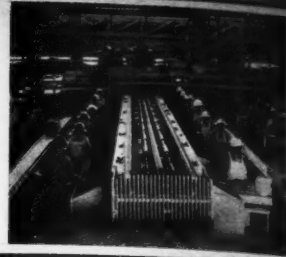


Flexible Coupling Makes Pipe Readily Adaptable to Level or Rolling Ground. Available in 3", 4", 6" and 8" Diameter With Complete Fittings.

CHICAGO METAL MFG. CO. 1717 SO. ROCKWELL ST. CHICAGO, ILLINOIS



# PACKING HOUSE EQUIPMENT



## Adhesives

Arabol Mfg. Co., New York, N.Y.  
Clark Stek-O Corp., Rochester, N.Y.  
National Starch Products, Inc., New York, N.Y.

## Bagging Machines

Hampshire Implement Co., Hatfield, Mass.

## Basket Making Machinery

Cobden Machine Works, Cobden, Ill.  
Saranac Machine Co., Benton Harbor, Mich.

## Belt Lacing

Armstrong-Bray & Co., Chicago, Ill.  
Detroit Belt Lacer Co., Detroit, Mich.  
Flexible Steel Lacing Co., Chicago, Ill.

## Belting

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Inc., Akron, Ohio  
Parma Water Lifter Co., Parma, Idaho  
Quaker City Rubber Co., Philadelphia, Pa.  
Republic Rubber Div., Lee Rubber & Tire Corp.,  
Youngstown, Ohio  
United States Rubber Co., New York, N.Y.

## Boilers

A. B. Farquhar Co., Ltd., York, Pa.  
Frick Company, Waynesboro, Pa.

## Box Forms

Double Twirler Spray Nozzle Corp., Red Hook,  
N.Y.  
Orchard Appliance Co., Wenatchee, Wash.  
F. A. Read, Inc., Albion, N.Y.

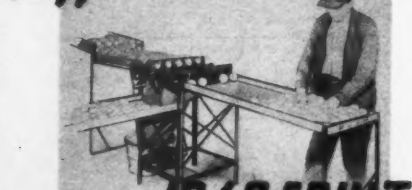
## Box Making Machinery

Cobden Machine Works, Cobden, Ill.  
William S. Doig, Inc., Brooklyn, N.Y.  
Food Machinery Corp., Santa Ana, Calif.  
Morgan Machine Co., Inc., Rochester, N.Y.  
Saranac Machine Co., Benton Harbor, Mich.

## Brushes

American Brush Co., Portland, Ore.  
John Bean Mfg. Co., Lansing, Mich.  
Fred A. Durand, Woodbury, Ga.  
Fuller Brush Co., Hartford, Conn.  
Trescott Co., Inc., Fairport, N.Y.  
Wayland Machinery Co., Coveseville, Va.  
Wolfe Brush Co., Pittsburgh, Pa.  
Wooster Brush Co., Wooster, Ohio

**Bigger PROFITS**



**on your 1940 FRUIT**

**THROUGH ACCURATE GRADING**

**AT Less Cost WITH**  
THE SENSATIONALLY  
IMPROVED  
**1940 MODELS**

**BUTLER "Champion" GRADERS**

Many new refinements. Save time, labor, money.  
Soft rubber rings divide fruit into 4 or 5 grades.  
No bruising. Highly commended by growers.

## Four Models—One to Suit Your Needs

Gasoline, Electric, Hand, and complete without Power  
Unit. All metal. Weight 200 lbs. Nothing to build  
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priced. **NEW ITEMS!** Brusher-Polisher,  
Storage Trucks and Larger Capacity Grader.  
Write today for catalog.

**BUTLER MFG. & MACHY. COMPANY**  
BELL BUILDING, CHICAGO, ILL.  
PAGE 34

## Chains and Sprockets

American Chain Div., American Chain & Cable  
Co., Inc., Bridgeport, Conn.  
Baldwin-Duckworth Chain Corp., Worcester,  
Mass.  
Diamond Chain & Mfg. Co., Indianapolis, Ind.  
H. D. Hudson Mfg. Co., Chicago, Ill.  
Link-Belt Co., Chicago, Ill.  
Locke Steel Chain Co., Bridgeport, Conn.  
Parma Water Lifter Co., Parma, Idaho  
Standard Conveyor Co., N. St. Paul, Minn.

## Cleaners and Polishers

George G. Bates, Kingston, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
Butler Mfg. & Machinery Co., Inc., Chicago, Ill.  
Fred A. Durand, Woodbury, Ga.  
"Friend" Mfg. Co., Gasport, N.Y.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
The Taylor Grader, Anna, Ill.  
Trescott Co., Inc., Fairport, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Wayland Machinery Co., Coveseville, Va.

## Conveyors

John Bean Mfg. Co., Lansing, Mich.  
Brogdex Co., Wenatchee, Wash.  
Conveyor Co., Inc., Huntington Park, Calif.  
Fred A. Durand, Woodbury, Ga.  
A. B. Farquhar Co., Ltd., York, Pa.  
Ideal Grader & Nursery Co., Hood River, Ore.  
Link-Belt Co., Chicago, Ill.  
Love Tractor Sales, Inc., Eau Claire, Mich.  
Mathews Conveyor Co., Ellwood City, Pa.  
Nailing Machine Div., Food Machinery Corp.,  
San Jose, Calif.  
Niagara Sprayer & Chem. Co., Middleport, N.Y.  
Parma Water Lifter Co., Parma, Idaho  
Standard Conveyor Co., N. St. Paul, Minn.  
Trescott Co., Inc., Fairport, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Wayland Machinery Co., Coveseville, Va.

## Diesel Engines

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Caterpillar Tractor Co., Peoria, Ill.  
Continental Motors Corp., Detroit, Mich.  
Fairbanks, Morse & Co., Chicago, Ill.  
Hill Diesel Engine Co., Lansing, Mich.  
Palmer Bros., Cos Cob, Conn.  
Waukesha Motor Co., Waukesha, Wis.  
Witte Engine Works, Inc., Kansas City, Mo.  
Worthington Pump & Machinery Corp., Buffalo,  
N.Y.

## Dryers

John Bean Mfg. Co., Lansing, Mich.  
Brogdex Co., Wenatchee, Wash.  
J. P. Devine Mfg. Co., Mt. Vernon, Ill.  
Ideal Grader & Nursery Co., Hood River, Ore.  
Moore Dry Kiln Co., N. Portland, Ore.  
Wayland Machinery Co., Coveseville, Va.

## Facers, Basket

John Bacon Inc., Gasport, N.Y.  
Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
B. F. Goodrich Co., Akron, Ohio  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Simplex Paper Corp., Adrian, Mich.  
Edwin C. Tyson, Flora Dale, Pa.

## Facers, Box

F. A. Read, Inc., Albion, N.Y.

## Fire Extinguishers

W. D. Allen Mfg. Co., Chicago, Ill.  
American-La France & Foamite Corp., Elmira,  
N.Y.  
Coronado Co., St. Paul, Minn.  
Fyr-Fyter Co., Dayton, Ohio  
General Fire Truck Corp., Detroit, Mich.  
National Formetal Co., Cleveland, Ohio  
Pyrene Mfg. Co., Newark, N.J.  
D. B. Smith & Co., Utica, N.Y.  
Wil-X-Mfg. Corp., Brooklyn, N.Y.

## Fly Papers and Ribbons

Excelsior Fly Paper Mills, Chicago, Ill.  
Schaeffer Bros. & Powell Mfg. Co., St. Louis,  
Mo.  
Tanglefoot Co., Grand Rapids, Mich.

## Fly Sprays

Gulf Oil Corp. of Pa., Pittsburgh, Pa.  
Interstate Chemical Mfg. Co., Reading, Pa.  
Lanair Co., Inc., Chicago, Ill.  
Sinclair Refining Co., New York, N.Y.  
Stanco, Inc., New York, N.Y.  
Standard Oil Co. of Ohio, Cleveland, Ohio  
Tanglefoot Co., Grand Rapids, Mich.

AMERICAN FRUIT GROWER

## Fumigants, Fungicide

Braun-Knecht-Heimann-Co., San Francisco,  
Calif.  
Food Machinery Corp., Riverside Div., Riverside,  
Calif.  
Wallace & Tiernan Sales Corp., Los Angeles,  
Calif.

## Gloves, Rubber

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Faultless Rubber Co., Ashland, Ohio  
B. F. Goodrich Co., Akron, Ohio  
Miller Rubber Co., Inc., Akron, Ohio  
Mine Safety Appliances Co., Pittsburgh, Pa.  
Seiberling Rubber Co., Akron, Ohio  
B. C. Tillinghast Rubber Co., Philadelphia, Pa.  
United States Rubber Co., New York, N.Y.

## Graders and Sizers

George G. Bates, Kingston, N.Y.  
John Bean Mfg. Co., Lansing, Mich.  
Brogdex Co., Wenatchee, Wash.  
Butler Mfg. & Machinery Co., Chicago, Ill.  
Cutler Mfg. Co., Portland, Ore.  
Fred A. Durand, Woodbury, Ga.  
"Friend" Mfg. Co., Gasport, N.Y.  
Fruit Machines Co., Portland, Ore.  
Ideal Grader & Nursery Co., Hood River, Ore.  
Niagara Sprayer & Chemical Co., Inc., Middle-  
port, N.Y.  
Parma Water Lifter Co., Parma, Idaho  
The Taylor Grader, Anna, Ill.  
Trescott Co., Inc., Fairport, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.  
Wayland Machinery Co., Coveseville, Va.

**Apple Grader \$125 Peach Grader \$75**  
**DEFUZZER and POLISHER \$45**

Growers using compact, sturdy Taylor Graders report  
that each will grade more than 1000 bushels a day.  
Other Taylor features: combination apple and peach  
grader—\$145, strawberry sorter—\$4.50, strawberry  
facer—\$1.50.

**The TAYLOR GRADER, Anna, Ill.**

## Hoists, Electric

Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Detroit Hoist & Machine Co., Detroit, Mich.  
Euclid Crane & Hoist Co., Cleveland, Ohio  
Fairbanks, Morse & Co., Chicago, Ill.  
Robbins & Myers, Inc., Springfield, Ohio  
Silent Hoist Winch & Crane Co., Brooklyn,  
N.Y.  
Yale & Towne Mfg. Co., Hoist Dept., Phila-  
delphia, Pa.

## Hose, Gasoline

Atlantic Metal Hose Co., Inc., New York, N.Y.  
Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Electric Hose & Rubber Co., Wilmington, Del.  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Tire & Rubber Co., Inc., Akron, Ohio  
National Gasoline Hose Co., Brooklyn, N.Y.  
Quaker City Rubber Co., Philadelphia, Pa.  
Republic Rubber Corp., Youngstown, Ohio  
United States Rubber Co., New York, N.Y.

## Insect Electric Screens

Chicago Electric Scientific Co., Chicago, Ill.  
Folmer Electracide Corp., Rochester, N.Y.

## Insect Electrocutors

Chicago Electric Scientific Co., Chicago, Ill.  
Folmer Electracide Corp., Rochester, N.Y.  
Insect Electrocutor Co., Cincinnati, Ohio  
International Sales Co., Chicago, Ill.  
Monolite Co., Berkeley, Calif.  
Mortene Laboratories, Chicago, Ill.

## Insect Light Traps

Miller Co., Meriden, Conn.

## Insecticide Diffusor

Tanglefoot Co., Grand Rapids, Mich.

## Lidding Machines

John Bean Mfg. Co., Lansing, Mich.  
Continental Paper Products Co., Denver, Colo.  
Cutler Mfg. Co., Portland, Ore.  
William S. Doig, Inc., Brooklyn, N.Y.

## Lift Trucks

Barrett-Cravens Co., Chicago, Ill.  
Colson Co., Elyria, Ohio  
Lewis-Shepard Co., Watertown, Mass.  
Lyon Iron Works, Greene, N.Y.  
Service Caster & Truck Co., Albion, Mich.  
Yale & Towne Mfg. Co., Philadelphia, Pa.

JUNE, 1940

# PACKING HOUSE EQUIPMENT

## Motors, Electric

Century Electric Co., St. Louis, Mo.  
Fairbanks, Morse & Co., Chicago, Ill.  
General Electric Co., Schenectady, N.Y.  
Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.

## Nailing Machinery

Harmon Clark Co., Chicago, Ill.  
William S. Doig, Inc., Brooklyn, N.Y.  
Morgan Machine Co., Inc., Rochester, N.Y.  
Nailing Machine Div., Food Machinery Corp., San Jose, Calif.

## NAILING MACHINERY

New and Rebuilt  
for Boxes, Crates, Lugs  
of All Descriptions

**William S. Doig, Inc.**

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## Nails

American Steel & Wire Co., Cleveland, Ohio  
Atlas Tack Corp., Fairhaven, Mass.  
Bethlehem Steel Co., Bethlehem, Pa.  
Burch Mfg. & Sheet Metal Works, Lawrence, Mich.  
Continental Steel Co., Kokomo, Ind.  
Hill Top Orchards & Nurseries, Hartford, Mich.  
Hillwood Mfg. Co., Cleveland, Ohio  
Keystone Steel & Wire Co., Peoria, Ill.  
Kokomo Nail & Brad Co., Kokomo, Ind.  
W. H. Maze Co., Peru, Ill.  
Pittsburgh Steel Co., Pittsburgh, Pa.  
Wheeling Steel Corp., Wheeling, W. Va.

## Packing Forms

John Bacon Inc., Gasport, N.Y.  
Burch Mfg. & Sheet Metal Works, Lawrence, Mich.  
Clark Stek-O Corp., Rochester, N.Y.  
Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Frank L. Deaner & Son, Benton Harbor, Mich.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
The Taylor Grader, Anna, Ill.  
Edwin C. Tyson, Flora Dale, Pa.

## Packing Tables

Brogdex Co., Wenatchee, Wash.  
Fruit Machines Co., Portland, Ore.  
Ideal Grader & Nursery Co., Hood River, Ore.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Parma Water Lifter Co., Parma, Idaho  
The Taylor Grader, Anna, Ill.

## Presses, Basket

Acme Veneer Package Co., Inc., Orchard Park, N.Y.  
Fruit Package Equipment Co., Swoope, Va.

## Presses, Box

John Bean Mfg. Co., Lansing, Mich.  
Cutler Mfg. Co., Portland, Ore.  
Parker Machine Works, Riverside, Calif.

## Pulleys

Chain Belt Co., Milwaukee, Wis.  
Dodge Mfg. Corp., Mishawaka, Ind.  
Fred A. Durand, Woodbury, Ga.  
Foote Gear Works, Inc., Chicago, Ill.  
Jones Foundry & Machine Co., Chicago, Ill.  
Link-Belt Co., Chicago, Ill.  
Medart Co., St. Louis, Mo.  
Pyott Foundry & Machine Co., Chicago, Ill.  
Rosenthal Corn Husker Co., Milwaukee, Wis.  
Stephens-Adamsen Mfg. Co., Aurora, Ill.

## Ripening Outfits, Ethylene

Carbide & Carbon Chemicals Corp., New York, N.Y.  
Ohio Chemical & Mfg. Co., Cleveland, Ohio

## Rings, Sizing

John Bacon Inc., Gasport, N.Y.  
F. A. Read, Inc., Albion, N.Y.  
Salt Lake Stamp Co., Salt Lake City, Utah  
Edwin C. Tyson, Flora Dale, Pa.

## Scales

Exact Weight Scale Co., Columbus, Ohio  
Fairbanks, Morse & Co., Chicago, Ill.  
Howe Scale Co., Rutland, Vt.  
Jacobs Bros. Co., Brooklyn, N.Y.

## Shredders, Paper

Edwards Sales Co., New York, N.Y.  
Mitts & Merrill, Saginaw, Mich.  
Ryther & Pringle Co., Carthage, N.Y.  
Taylor, Stiles & Co., Riegelsville, N.Y.

## Sorters, Berry

The Taylor Grader, Anna, Ill.  
JUNE, 1940

## Sorting Tables, Fruit

John Bean Mfg. Co., Lansing, Mich.  
Brogdex Co., Wenatchee, Wash.  
Cutler Mfg. Co., Portland, Ore.  
Fred A. Durand, Woodbury, Ga.  
Fruit Machines Co., Portland, Ore.  
Ideal Grader & Nursery Co., Hood River, Ore.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Parma Water Lifter Co., Parma, Idaho  
The Taylor Grader, Anna, Ill.  
Wayland Machinery Co., Coveseville, Va.

## Sponge Rubber Sheetting

Broadway Rubber Co., Louisville, Ky.  
Faultless Rubber Co., Mansfield, Ohio  
Sponge Rubber Products Co., Derby, Conn.  
Edwin C. Tyson, Flora Dale, Pa.

## Stamping Machines, Fruit

Ahlsburg Co., Inc., Los Angeles, Calif.  
Citrus Machinery Co., Los Angeles, Calif.  
Orchard Appliance Co., Wenatchee, Wash.  
F. J. Sevigne Machine Co., Nashua, N.H.

## Stands, Facing

Fruit Packing Equipment Co., Swoope, Va.

## Staplers and Stitchers

Automatic Stapler Co., Chicago, Ill.  
Bostitch Sales Co., Greenwich, R.I.  
Cobden Machine Works, Cobden, Ill.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
General Food Package Equipment Corp., Benton Harbor, Mich.  
Markwell Mfg. Co., Inc., New York, N.Y.  
Parrot Speed Fasteners Corp., New York, N.Y.  
Saranac Machine Co., Benton Harbor, Mich.

## Staples

F. D. Croce & Co., Inc., New York, N.Y.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Markwell Mfg. Co., Inc., New York, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

## Strapping

Gerrard Co., Inc., Chicago, Ill.  
Stanley Works, New Britain, Conn.

## Trucks, Warehouse

Barrett-Cravens Co., Chicago, Ill.  
Butler Mfg. & Machinery Co., Chicago, Ill.  
Electric Wheel Co., Quincy, Ill.  
Hamilton Caster & Mfg. Co., Hamilton, Ohio  
Huntington Wagon Works, Huntington, Ind.  
Lewis-Shepard Co., Watertown, Mass.  
Musselman Products Co., Cleveland, Ohio  
Peru Wheel Co., Peru, Ill.  
Saginaw Stamping & Tool Co., Saginaw, Mich.  
Service Caster & Truck Co., Albion, Mich.  
Steubing Truck Co., Cincinnati, Ohio  
Thomas Truck & Caster Co., Keokuk, Iowa  
Wayne Agricultural Works, Inc., Goldsboro, N.C.  
Yale & Towne Mfg. Co., Philadelphia, Pa.

## Turners, Basket

John Bean Mfg. Co., Lansing, Mich.  
Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Fruit Packing Equipment Co., Swoope, Va.  
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.  
Parma Water Lifter Co., Parma, Idaho  
Trescott Co., Inc., Fairport, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

## Washers, Fruit

John Bean Mfg. Co., Lansing, Mich.  
Brogdex Co., Wenatchee, Wash.  
Cutler Mfg. Co., Portland, Ore.  
Ideal Grader & Nursery Co., Hood River, Ore.  
Floyd Leach, Hartford, Mich.  
Parma Water Lifter Co., Parma, Idaho  
Edwin C. Tyson, Flora Dale, Pa.  
Wayland Machinery Co., Coveseville, Va.

## Washing Compounds, Fruit

American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.  
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.  
General Chemical Co., New York, N.Y.  
Los Angeles Soap Co., Los Angeles, Calif.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Mechling Bros. Chemical Co., Camden, N.J.  
Monsanto Chemical Co., Rubber Service Laboratories Div., Akron, Ohio  
Philadelphia Quartz Co., Philadelphia, Pa.  
Tennessee Eastman Corp., Kingsport, Tenn.

## Wax

Brogdex Co., Pomona, Calif.  
Dow Chemical Co., Midland, Mich.  
Wilbur White Div., Franklin Research Co., Philadelphia, Pa.

## Wrap Holders, Fruit

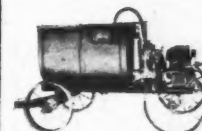
Getts Mfg. Co., Monrovia, Calif.  
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BEAN 'Royal' Tractor Power Sprayer... 2-speed transmission if desired. All sizes.



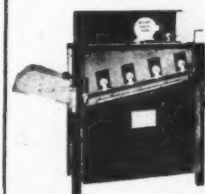
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...BEAN Tractor Sprayers ...BEAN Greenhouse Sprayer  
...BEAN Little Giant Duplex ...BEAN 2-Way Grader  
...BEAN Orchard Duster ...BEAN Rubber-Sp. Grader  
...CUTLER Fruit Grader ...CUSHMAN Engines

NAME

ADDRESS



# PACKAGES AND PACKAGING



## Caps, Corrugated

John Bacon Inc., Gasport, N.Y.  
Berryville Basket Co., Inc., Berryville, Va.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Hinde & Dauch Paper Co., Sandusky, Ohio  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Simplex Paper Corp., Adrian, Mich.  
Sutherland Paper Co., Kalamazoo, Mich.  
Edwin C. Tyson, Flora Dale, Pa.

## Catalogs and Folders

Brandau-Craig-Dickerson Co., Nashville, Tenn.  
Epsen Lithographing Co., Omaha, Nebr.  
Gamse Lithographing Co., Inc., Baltimore, Md.  
A. Hoen & Co., Baltimore, Md.  
A. B. Morse Co., St. Joseph, Mich.  
Reynolds & Reynolds Co., Dayton, Ohio  
United States Printing & Lithograph Co., Cincinnati, Ohio  
Western Lithograph Co., Wichita, Kans.

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Write today. Ask for "Merchandising Trends," which gives many practical hints for applying this modern selling aid to your business. No obligation. Dept. P. M., "Cellophane" Division, Du Pont, Wilmington, Delaware.



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| <input type="checkbox"/> Asparagus        | <input type="checkbox"/> Grapes     | <input type="checkbox"/> Peaches   |
| <input type="checkbox"/> Avocados         | <input type="checkbox"/> Lettuce    | <input type="checkbox"/> Plums     |
| <input type="checkbox"/> Berries          | <input type="checkbox"/> Limes      | <input type="checkbox"/> Potatoes  |
| <input type="checkbox"/> Broccoli         | <input type="checkbox"/> Melons     | <input type="checkbox"/> Tomatoes  |
| <input type="checkbox"/> Brussels Sprouts |                                     |                                    |
| <input type="checkbox"/> Cauliflower      |                                     |                                    |
| <input type="checkbox"/> Celery           |                                     |                                    |
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# Cellophane

TRADE MARK

"Cellophane" is a trade mark of E. I. du Pont de Nemours & Co. (Inc.)



## Cellophane

E. I. du Pont de Nemours & Co., Inc., "Cellophane" Div., Wilmington, Del.  
Sylvania Industrial Corp., New York, N.Y.

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(Reg. U.S. Pat. Off.)

**WILL SELL MORE FRUIT FOR YOU**  
Made in clear white and colors. Also furnished in Shavings for fruit packing.

**SYLVANIA INDUSTRIAL CORPORATION**  
ROOM 4406, CHANIN BLDG., NEW YORK

## Containers

### BAGS, CLOTH

Bemis Bro. Bag Co., St. Louis, Mo.  
Chase Bag Co., Chagrin Falls, Ohio  
F. D. Croce & Co., Inc., New York, N.Y.  
Fulton Bag & Cotton Mills, Atlanta, Ga.

### BAGS, OPEN MESH

Bemis Bro. Bag Co., St. Louis, Mo.  
Chase Bag Co., Chagrin Falls, Ohio  
Fulton Bag & Cotton Mills, Atlanta, Ga.

### BAGS, PAPER

Bemis Bro. Bag Co., St. Louis, Mo.  
Chase Bag Co., Chagrin Falls, Ohio  
Fulton Bag & Cotton Mills, Atlanta, Ga.

### BAGS, TRANSPARENT

Brooks Paper Co., St. Louis, Mo.  
Dobackmun Co., Cleveland, Ohio  
Humitube Mfg. Co., Peoria, Ill.  
Milprint, Inc., Milwaukee, Wis.  
Thomas M. Royal & Co., Philadelphia, Pa.  
Shellmar Products Co., Chicago, Ill.  
Traver Corp., Chicago, Ill.  
Zellerbach Paper Co., San Francisco, Calif.

### BASKETS, CORRUGATED

American Box Board Co., Grand Rapids, Mich.  
Ashtabula Corrugated Box Co., Ashtabula, Ohio  
Container Corp. of America, Chicago, Ill.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Gaylord Container Corp., Atlanta, Ga.  
Hankins Container Co., Cleveland, Ohio  
Ohio Boxboard Co., Rittman, Ohio  
Edwin C. Tyson, Flora Dale, Pa.

### BASKETS, FIBERBOARD

American Box Board Co., Grand Rapids, Mich.  
Container Corp. of America, Chicago, Ill.  
Arthur A. Erny Co., St. Paul, Minn.  
Fibreboard Products Inc., San Francisco, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Robert Gair Co., Inc., New York, N.Y.  
Gaylord Container Corp., Atlanta, Ga.  
Kieckhefer Container Co., Delair, N.J.  
Ohio Boxboard Co., Rittman, Ohio  
Pioneer Paper Stock Co., Chicago, Ill.  
Fred C. Strype, New York, N.Y.  
Edwin C. Tyson, Flora Dale, Pa.

### BASKETS, PAPERBOARD

American Box Board Co., Grand Rapids, Mich.  
Container Corp. of America, Chicago, Ill.  
Fibreboard Products Inc., San Francisco, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Robert Gair Co., Inc., New York, N.Y.  
Gaylord Container Corp., Atlanta, Ga.  
Hankins Container Co., Cleveland, Ohio  
Maxwell Brothers, Inc., Chicago, Ill.  
Owens-Illinois Pacific Coast Co., San Francisco, Calif.  
Pioneer Paper Stock Co., Chicago, Ill.

### BASKETS, WOOD

Acme Veneer Package Co., Orchard Park, N.Y.  
John Bacon Inc., Gasport, N.Y.  
Barden & Robeson Corp., Lockport, N.Y.  
Barden & Robeson Corp., Penn Yan, N.Y.  
Burlington Basket Co., Burlington, Iowa  
Cummer-Graham Co., Paris, Texas  
Frank L. Deaner & Son, Benton Harbor, Mich.  
Edgerton Mfg. Co., Plymouth, Ind.  
Evansville Basket & Crate Co., Evansville, Ind.  
F. W. Harrison & Son, Painesville, Ohio  
Marietta Fruit Package & Lumber Co., Marietta, Ohio  
Paducah Box & Basket Co., Paducah, Ky.  
Pierce-Williams Co., South Haven, Mich.  
H. L. Rapp & Son, Carpentersville, N.J.  
Roberts-Liggett Co., Metropolis, Ill.  
Sodus Basket Co., Sodus, N.Y.  
Southern Crate & Veneer Co., Macon, Ga.  
Walter Verhalen Co., Dallas, Texas

## BOX SHOOKS

Acushnet Saw Mills Co., New Bedford, Mass.  
Chicago Mill & Lumber Co., Chicago, Ill.  
General Box Co., Chicago, Ill.  
Gideon-Anderson Lumber Co., St. Louis, Mo.  
Green Co., Inc., Bellows Falls, Vt.  
Hightower Box & Tank Co., Birmingham, Ala.  
Holston Box & Lumber Co., Knoxville, Tenn.  
R. T. Jones Lumber Co., Inc., Box and Mill Div., North Tonawanda, N.Y.  
Long Bell Lumber Sales Corp., Kansas City, Mo.  
Marinette & Menominee Box Co., Marinette, Wis.  
Maxwell Brothers, Inc., Chicago, Ill.  
Mell Lumber Co., Philadelphia, Pa.  
New England Box Co., New York, N.Y.  
Rathborne, Hair & Ridgway Co., Chicago, Ill.  
Smeed Box Co., Cleveland, Ohio  
Spruce Veneer Package Corp., Puyallup, Wash.

## BOXES AND CRATES, BERRY

Acme Veneer Package Co., Orchard Park, N.Y.  
American Box Board Co., Grand Rapids, Mich.  
Ashtabula Corrugated Box Co., Ashtabula, Ohio  
Berlin Fruit Box Co., Berlin Heights, Ohio  
Frank L. Deaner & Son, Sodus, Mich.  
Fibre Berry Box Co., Hammond, La.  
Fibreboard Products Inc., San Francisco, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Gaylord Container Corp., Atlanta, Ga.  
General Box Co., Chicago, Ill.  
F. W. Harrison & Son, Painesville, Ohio  
Inman Mfg. Co., Amsterdam, N.Y.  
Maxwell Brothers, Inc., Chicago, Ill.  
New Albany Box & Basket Co., New Albany, Ind.  
Ohio Boxboard Co., Rittman, Ohio  
Paducah Box & Basket Co., Paducah, Ky.  
Roberts-Liggett Co., Metropolis, Ill.  
Rollrim Box Co., Benton Harbor, Mich.  
Spruce Veneer Package Corp., Puyallup, Wash.  
Edwin C. Tyson, Flora Dale, Pa.

## BOXES AND CRATES, CORRUGATED

American Box Board Co., Grand Rapids, Mich.  
Ashtabula Corrugated Box Co., Ashtabula, Ohio  
Baltimore Paper Box Co., Baltimore, Md.  
Bird & Son, Inc., E. Walpole, Mass.  
California Container Corp., Emeryville, Calif.  
Container Corp. of America, Chicago, Ill.  
Corrugated Container Co., Columbus, Ohio  
Fibreboard Products Inc., San Francisco, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Robert Gair Co., Inc., New York, N.Y.  
Gaylord Container Corp., Atlanta, Ga.  
Hankins Container Co., Cleveland, Ohio  
Hinde & Dauch Paper Co., Sandusky, Ohio  
Marketing Service Corp., Baltimore, Md.  
Ohio Boxboard Co., Rittman, Ohio  
Owens-Illinois Pacific Coast Co., San Francisco, Calif.  
Pioneer Paper Stock Co., Chicago, Ill.  
B. G. Pratt Co., New York, N.Y.  
Simplex Paper Corp., Adrian, Mich.  
Traub Container Corp., Cleveland, Ohio  
Edwin C. Tyson, Flora Dale, Pa.

## BOXES, FIBERBOARD

American Box Board Co., Grand Rapids, Mich.  
Baltimore Paper Box Co., Baltimore, Md.  
Bird & Son, Inc., E. Walpole, Mass.  
Container Corp. of America, Chicago, Ill.  
Evansville Container Co., Evansville, Ind.  
Fibreboard Products Inc., San Francisco, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Robert Gair Co., Inc., New York, N.Y.  
Hinde & Dauch Paper Co., Sandusky, Ohio  
Marketing Service Corp., Baltimore, Md.  
Ohio Boxboard Co., Rittman, Ohio  
Pioneer Paper Stock Co., Chicago, Ill.  
Rollrim Box Co., Benton Harbor, Mich.  
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**IN THE NEW CONSUMER TRAY APPLE CONTAINER APPLES KEEP LONGER, LOOK BETTER, SELL FOR MORE.**

Cash in now, along with the thousands of growers who are marketing their apples in the consumer tray box. Dealers like them—Customers demand them!

Write for samples and prices

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Indianapolis, Indiana

# PACKAGES AND PACKAGING

## BOXES, PAPERBOARD

American Box Board Co., Grand Rapids, Mich.  
Baltimore Paper Box Co., Baltimore, Md.  
Container Corp. of America, Chicago, Ill.  
F. D. Croce & Co., Inc., New York, N.Y.  
Robert Gair Co., Inc., New York, N.Y.  
Marketing Service Corp., Baltimore, Md.  
Owens-Illinois Pacific Coast Co., San Francisco, Calif.

Pioneer Paper Stock Co., Chicago, Ill.  
Fred C. Strype, New York, N.Y.  
Sutherland Paper Co., Kalamazoo, Mich.  
Van Viek Paper Co., Duluth, Minn.

## BOXES, WINDOW

American Box Board Co., Grand Rapids, Mich.  
Baltimore Paper Box Co., Baltimore, Md.  
Robert Gair Co., Inc., New York, N.Y.  
Marketing Service Corp., Baltimore, Md.  
Maxwell Brothers, Inc., Chicago, Ill.  
Sutherland Paper Co., Kalamazoo, Mich.

## BOXES AND CRATES, WIREBOUND

Chicago Mill & Lumber Co., Chicago, Ill.  
Florida All-Bound Box Co., Auburndale, Fla.  
General Box Co., Chicago, Ill.  
Indianapolis Wire Bound Box Co., Indianapolis, Ind.

R. T. Jones Lumber Co., Inc., North Tonawanda, N.Y.  
Lange & Crist Box & Lumber Co., Inc., Clarksburg, W. Va.  
Main Bros. Box & Lumber Co., Karnak, Ill.  
Marietta Fruit Package & Lumber Co., Marietta, Ohio

Maxwell Brothers, Inc., Chicago, Ill.  
T. R. Miller Mill Co., Inc., Brewton, Ala.  
New England Box Co., New York, N.Y.  
Planters Mfg. Co., Inc., Portsmouth, Va.  
Rathborne, Hair & Ridgway Co., Chicago, Ill.  
Southern Crate & Veneer Co., Macon, Ga.  
Southern Package Corp., Port Gibson, Miss.  
Virginia Barrel Co., Winchester, Va.

## BOXES AND CRATES, WOOD

John Bacon Inc., Gasport, N.Y.  
Barden & Robeson Corp., Lockport, N.Y.  
Barden & Robeson Corp., Penn Yan, N.Y.  
California Barrel Co., Ltd., Los Angeles, Calif.  
Chicago Mill & Lumber Co., Chicago, Ill.  
H. A. Du Bois & Sons, Inc., Cobden, Ill.  
Evans Products Co., Detroit, Mich.  
Evansville Container Co., Evansville, Ind.  
General Box Co., Chicago, Ill.  
Gideon-Anderson Lumber Co., St. Louis, Mo.  
F. W. Harrison & Son, Painesville, Ohio  
Maxwell Brothers, Inc., Chicago, Ill.  
Mell Lumber Co., Philadelphia, Pa.  
T. R. Miller Mill Co., Inc., Brewton, Ala.  
New Albany Box & Basket Co., New Albany, Ind.  
New England Box Co., New York, N.Y.  
Rathborne, Hair & Ridgway Co., Chicago, Ill.  
Smed Box Co., Cleveland, Ohio  
Sodus Basket Co., Sodus, N.Y.  
Southern Crate & Veneer Co., Macon, Ga.  
Spruce Veneer Package Corp., Puyallup, Wash.  
Traub Container Corp., Cleveland, Ohio  
Edwin C. Tyson, Florida Dale, Pa.

## CARTONS, CONSUMER

American Box Board Co., Grand Rapids, Mich.  
California Container Corp., Emeryville, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Marketing Service Corp., Baltimore, Md.

## CARTONS, CORRUGATED

American Box Board Co., Grand Rapids, Mich.  
Ashtabul Corrugated Box Co., Ashtabula, Ohio  
California Container Corp., Emeryville, Calif.  
Container Corp. of America, Chicago, Ill.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Robert Gair Co., Inc., New York, N.Y.  
Gaylord Container Corp., Atlanta, Ga.  
Hinde & Dauch Paper Co., Sandusky, Ohio  
Maxwell Brothers, Inc., Chicago, Ill.  
B. G. Pratt Co., New York, N.Y.  
Simplex Paper Corp., Adrian, Mich.

## TUBS, WOOD

Acme Veneer Package Co., Inc., Orchard Park, N.Y.  
Barden & Robeson Corp., Lockport, N.Y.  
Barden & Robeson Corp., Penn Yan, N.Y.  
Burlington Basket Co., Burlington, Iowa  
Edgerton Mfg. Co., Plymouth, Ind.  
Evansville Container Co., Evansville, Ind.  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Southern Crate & Veneer Co., Macon, Ga.  
Spruce Veneer Package Corp., Puyallup, Wash.  
Walter Verhalen Co., Dallas, Texas

## Covers, Basket

Wm. E. Asplin Basket Co., Cleveland, Ohio  
Berlin Fruit Box Co., Berlin Heights, Ohio  
Edgerton Mfg. Co., Plymouth, Ind.  
Southern Crate & Veneer Co., Macon, Ga.

## Cushions

Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Edgerton Mfg. Co., Plymouth, Ind.  
Arthur A. Erny Co., St. Paul, Minn.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Hinde & Dauch Paper Co., Sandusky, Ohio  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Simplex Paper Corp., Adrian, Mich.  
Fred C. Strype, New York, N.Y.  
Sutherland Paper Co., Kalamazoo, Mich.  
Edwin C. Tyson, Florida Dale, Pa.

JUNE, 1949

## Excelsior

American Excelsior Corp., Chicago, Ill.  
Brooks Paper Co., St. Louis, Mo.  
Clark Stek-O Corp., Rochester, N.Y.  
Excelsior Mills Corp., Jacksonville, Fla.  
Pioneer Paper Stock Co., Chicago, Ill.  
Sylvania Industrial Corp., New York, N.Y.

## Fringes

Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Arthur A. Erny Co., St. Paul, Minn.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Pioneer Paper Stock Co., Chicago, Ill.  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Sutherland Paper Co., Kalamazoo, Mich.

## Labels

Brandau-Craig-Dickerson Co., Nashville, Tenn.  
F. D. Croce & Co., Inc., New York, N.Y.  
Epsen Lithographing Co., Omaha, Nebr.  
Fibreboard Products Inc., San Francisco, Calif.  
Gamse Lithographing Co., Inc., Baltimore, Md.  
Grayarc Co., New York, N.Y.  
A. Hoen & Co., Baltimore, Md.  
A. B. Morse Co., St. Joseph, Mich.  
Muirson Label Co., Inc., San Jose, Calif.  
Reynolds & Reynolds Co., Dayton, Ohio  
Schmidt-Lithograph Co., San Francisco, Calif.  
Tablet & Ticket Co., Chicago, Ill.  
United States Printing & Lithograph Co., Cincinnati, Ohio

THE STANDARD PAPER LINE

**PACKAGING**

Green Stripe Caps—Hatt Liners—Tissue—Fringes—Cushions—Corrugated Sacks

**FRUIT & PRODUCE PACKING, INC.**

Indianapolis, Ind.

## Liners

Berryville Basket Co., Inc., Berryville, Va.  
Clark Stek-O Corp., Rochester, N.Y.  
Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Frank L. Deane & Son, Benton Harbor, Mich.  
Edgerton Mfg. Co., Plymouth, Ind.  
Arthur A. Erny Co., St. Paul, Minn.  
Evansville Container Co., Evansville, Ind.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
New Albany Box & Basket Co., New Albany, Ind.  
Pioneer Paper Stock Co., Chicago, Ill.  
Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Simplex Paper Corp., Adrian, Mich.  
Fred C. Strype, New York, N.Y.  
Sutherland Paper Co., Kalamazoo, Mich.  
Edwin C. Tyson, Florida Dale, Pa.

## A COMPLETE LINE for FRUIT PACKERS

**LINERS**  
**PACERS**  
**TUBS**  
**CUSHIONS**  
**FRINGES**  
**SERREDD**  
**OILED PAPER**

Properly-packed fruit gets attention of top-price buyers. Write us now for helpful, interesting facts on complete packaging supplies. Save time and money by letting us take care of all your packaging needs.

**RICE, TREW & RICE CO., Inc.**  
**BIGLERVILLE, PENNSYLVANIA**

## Pads

John Bacon Inc., Gasport, N.Y.  
California Container Corp., Emeryville, Calif.  
Continental Paper Products Co., Denver, Colo.  
Frank L. Deane & Son, Benton Harbor, Mich.  
Fibreboard Products Inc., San Francisco, Calif.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Hinde & Dauch Paper Co., Sandusky, Ohio  
New Albany Box & Basket Co., New Albany, Ind.  
Fred C. Strype, New York, N.Y.  
Edwin C. Tyson, Florida Dale, Pa.

## Paper, Shredded Oiled

John Bacon Inc., Gasport, N.Y.  
Continental Paper Products Co., Denver, Colo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Diamond-T-Waxed Paper Corp., Chicago, Ill.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Miller Chemical & Fertilizer Corp., Baltimore, Md.

Rice, Trew & Rice Co., Inc., Biglerville, Pa.  
Fred C. Strype, New York, N.Y.  
Edwin C. Tyson, Florida Dale, Pa.  
United Paper Co., Tampa, Fla.

## Paper, Shredded Plain

Brooks Paper Co., St. Louis, Mo.  
F. D. Croce & Co., Inc., New York, N.Y.  
Fruit & Produce Packing, Inc., Indianapolis, Ind.  
Pioneer Paper Stock Co., Chicago, Ill.

## Paper, Shredded Transparent

Brooks Paper Co., St. Louis, Mo.  
Sylvania Industrial Corp., New York, N.Y.

AMERICAN FRUIT GROWER



**Yes, Sir,  
BEMIS LENONET  
BAGS BOOST  
APPLE SALES!**

These handy household-size packages win preference because they do a real selling job.

This season be prepared to make more money on your apple crop. Alert growers are realizing higher prices and more sales by sending their better grades of apples to market in Bemis Lenonet Bags. And here are just a few reasons why:

Apples have more "eye appeal" dressed up in these neat, colorful containers. Lenonet Bags win approval on the "visible content" score . . . housewives like to see what they buy.

Bemis Lenonet Bags move more apples. Shoppers buy 5 or 10-pound bags . . . instead of 2 or 3 pounds from bulk.

Quality is protected. Free air circulation reduces spoilage . . . so your apples bring top prices.

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## STORAGES



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Ilg Electric Ventilating Co., Chicago, Ill.  
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Nash-Kelvinator Corp., Detroit, Mich.  
Niagara Blower Co., Buffalo, N.Y.  
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Worthington Pump & Machinery Corp., Har-  
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Sisakraft Co., Chicago, Ill.

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Waukesha Motor Co., Waukesha, Wis.  
Witte Engine Works, Inc., Kansas City, Mo.  
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N.Y.

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Parker Ice Machine Co., Inc., San Bernardino,  
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York Ice Machinery Corp., York, Pa.

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Ruberoid Co., New York, N.Y.  
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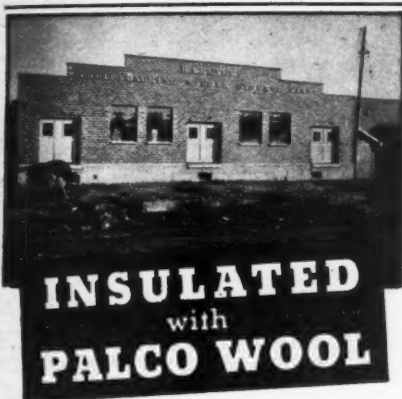
# STORAGES

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General Electric Co., Bloomfield, N.J.  
General Refrigeration Sales Co., Beloit, Wis.  
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## Corking Machines

American Seitz Filter Corp., New York, N.Y.  
Bridgeport Engineering Co., Bridgeport, Conn.  
U.S. Bottlers Machinery Co., Chicago, Ill.

## Crushers

A. B. Farquhar Co., Ltd., York, Pa.  
Hertzler & Zook Co., Belleville, Pa.  
Hocking Valley Mfg. Co., Lancaster, Ohio  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Palmer Bros., Cos Cob, Conn.

## Dryers, Fruit

Moore Dry Kiln Co., N. Portland, Ore.  
Wayland Machinery Co., Covasville, Va.

## Evaporators

A. B. Farquhar Co., Ltd., York, Pa.  
Food Machinery Corp., Anderson-Barngrover Div., San Jose, Calif.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio

## Extractors, Juice

American Utensil Co., Chicago, Ill.  
Burns Mfg. Co., Syracuse, N.Y.  
Enterprise Mfg. Co. of Pa., Philadelphia, Pa.  
L. O. Koven & Bro., Inc., Jersey City, N.J.  
F. H. Langsenkamp Co., Indianapolis, Ind.  
New Standard Corp., Mt. Joy, Pa.

JUNE, 1940

## Filling Machinery, Bottle

American Seitz Filter Corp., New York, N.Y.  
Elgin Mfg. Co., Elgin, Ill.  
Everedy Machine Co., Philadelphia, Pa.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Geo. Meyer Mfg. Co., Cudahy, Wis.  
Pneumatic Scale Corp., Quincy, Mass.  
Scientific Filter Co., New York, N.Y.

## Filters, Fruit Juice

American Seitz Filter Corp., New York, N.Y.  
Cuno Engineering Co., Meriden, Conn.  
Dicalite Co., New York, N.Y.  
Filter Paper Co., Chicago, Ill.  
Food Machinery Corp., Anderson-Barngrover Div., San Jose, Calif.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Johns-Manville, New York, N.Y.  
Oliver United Filters, Inc., Hazelton, Pa.  
Palmer Bros., Cos Cob, Conn.  
Scientific Filter Co., New York, N.Y.  
Seattle Tent & Awning Co., Seattle, Wash.  
T. Shriver & Co., Harrison, N.J.

## Glassware

Ball Bros. Co., Muncie, Ind.  
Hart Glass Mfg. Co., Dunkirk, Ind.  
Hazel-Atlas Glass Co., Wheeling, W.Va.  
Kerr Glass Mfg. Corp., Sand Springs, Okla.  
Owens-Illinois Glass Co., Toledo, Ohio  
Tygart Valley Glass Co., Washington, Pa.

## Gloves, Rubber

Broadway Rubber Mfg. Co., Louisville, Ky.  
Continental Rubber Works, Erie, Pa.  
Faultless Rubber Co., Ashland, Ohio  
Goodall Rubber Co., Inc., Philadelphia, Pa.  
B. F. Goodrich Co., Akron, Ohio  
Miller Rubber Co., Inc., Akron, Ohio  
Mine Safety Appliance Co., Pittsburgh, Pa.  
Minor Rubber Co., Inc., Newark, N.J.  
Seiberling Rubber Co., Akron, Ohio  
B. C. Tillinghast Rubber Co., Philadelphia, Pa.  
United States Rubber Co., New York, N.Y.

## Graters

A. B. Farquhar Co., Ltd., York, Pa.  
Hamilton Metal Products Co., Hamilton, Ohio  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
New Jersey Agricultural Works, Trenton, N.J.  
Palmer Bros., Cos Cob, Conn.  
Thomas-Albright Co., Goshen, Ind.

## Grinders

A. B. Farquhar Co., Ltd., York, Pa.  
Food Machinery Corp., Anderson-Barngrover Div., San Jose, Calif.  
Hocking Valley Mfg. Co., Lancaster, Ohio  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
New Jersey Agricultural Works, Trenton, N.J.  
Palmer Bros., Cos Cob, Conn.  
Papee Machine Co., Shortsville, N.Y.  
J. B. Sedberry, Inc., Utica, N.Y.  
Stover Mfg. & Engine Co., Freeport, Ill.  
Thomas-Albright Co., Goshen, Ind.

## Juicing Machines

Jiffy Juicing Machines, Inc., Seattle, Wash.

## Kettles, Cookers and Vats

Atlas Copper & Brass Mfg. Co., Chicago, Ill.  
Brighton Copper Works, Cincinnati, Ohio  
Bucyrus Copper Kettle Works Co., Bucyrus, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Food Machinery Corp., Anderson-Barngrover Div., San Jose, Calif.  
Arthur Harris & Co., Chicago, Ill.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
F. H. Langsenkamp Co., Indianapolis, Ind.  
Pfaudler Co., Rochester, N.Y.

## Labeling Machines

Alsop Engineering & Equip. Co., New York, N.Y.  
American Seitz Filter Corp., New York, N.Y.  
Economic Machinery Co., Worcester, Mass.  
International Filler Corp., Petersburg, Va.  
U.S. Bottlers Machinery Co., Chicago, Ill.

## Labels

Epsen Lithographing Co., Omaha, Nebr.  
Gamse Lithographing Co., Inc., Baltimore, Md.  
Graybar Co., New York, N.Y.  
A. B. Hoen & Co., Baltimore, Md.  
A. B. Morse Co., St. Joseph, Mich.  
Reynolds & Reynolds Co., Dayton, Ohio  
St. Louis Sticker Co., St. Louis, Mo.  
Schmidt-Lithograph Co., San Francisco, Calif.  
Tablet & Ticket Co., Chicago, Ill.  
United States Printing & Lithograph Co., Cincinnati, Ohio

## Nut Cracking, Shelling Machinery

Atwood Mfg. Co., Ardmore, Okla.  
Bashaw Co., San Francisco, Calif.  
Commercial Iron Work, Los Angeles, Calif.  
Leonard Machine Works, Lansdowne, Pa.  
Victor Machine Works, St. Louis, Mo.



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## Pasteurizing Outfits

Otto Eick, Inc., St. Louis, Mo.  
Food Machinery Corp., Anderson-Barngrover  
Div., San Jose, Calif.  
Glascote Products, Inc., Cleveland, Ohio  
Heil Co., Milwaukee, Wis.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Pfandler Co., Rochester, N.Y.

## Pectin

California Fruit Growers Exchange, Products  
Dept., Ontario, Calif.  
General Foods Sales Co., New York, N.Y.  
Pen-Jel Corp., Kansas City, Mo.  
Skipner Mfg. Co., Omaha, Nebr.

## Peelers

Josiah Anstice & Co., Inc., Rochester, N.Y.  
Burns Mfg. Co., Syracuse, N.Y.  
Food Machinery Corp., Anderson-Barngrover  
Div., San Jose, Calif.

## Pomace Pickers

A. B. Farquhar Co., Ltd., York, Pa.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio

## Presses, Fruit

Cutaway Harrow Co., Higganum, Conn.  
Enterprise Mfg. Co. of Pa., Philadelphia, Pa.  
A. B. Farquhar Co., Ltd., York, Pa.  
Food Machinery Corp., Anderson-Barngrover  
Div., San Jose, Calif.  
Hertzel & Zook Co., Belleville, Pa.  
Hocking Valley Mfg. Co., Lancaster, Ohio  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
New Jersey Agricultural Works, Trenton, N.J.  
Palmer Bros., Cos Cob, Conn.  
Thomas-Albright Co., Goshen, Ind.  
Edwin C. Tyson, Flora Dale, Pa.

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Beach-Russ Co., New York, N.Y.  
Decatur Pump Co., Decatur, Ill.  
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Duro Co., Dayton, Ohio  
A. B. Farquhar Co., Ltd., York, Pa.  
Food Machinery Corp., Anderson-Barngrover  
Div., San Jose, Calif.  
Goulds Pumps, Inc., Seneca Falls, N.Y.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Palmer Bros., Cos Cob, Conn.  
Scientific Filter Co., New York, N.Y.  
T. Shriver & Co., Harrison, N.J.  
Thomas-Albright Co., Goshen, Ind.  
E. B. Van Atta & Co., Inc., Olean, N.Y.  
Weinman Pump Mfg. Co., Columbus, Ohio

## Quartering Machines

Boutell Mfg. Co., Rochester, N.Y.

## Racks and Strainers, Fruit Juice

A. B. Farquhar Co., Ltd., York, Pa.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
New Jersey Agricultural Works, Trenton, N.J.  
Palmer Bros., Cos Cob, Conn.  
Thomas-Albright Co., Goshen, Ind.

## Rubber Jar Rings

Acme Rubber Co., Trenton, N.J.  
Ball Bros. Co., Muncie, Ind.  
Boston Woven Hose & Rubber Co., Cambridge,  
Mass.  
Broadway Rubber Mfg. Co., Louisville, Ky.  
B. F. Goodrich Co., Akron, Ohio  
Hamilton Rubber Co., Trenton, N.J.  
Jenkins Bros., Bridgeport, Conn.  
United States Rubber Co., New York, N.Y.

## Sealers

Burpee Can Sealer Co., Chicago, Ill.  
Food Machinery Corp., Anderson-Barngrover  
Div., San Jose, Calif.  
National Aluminum Mfg. Co., Peoria, Ill.  
National Can Co., Inc., New York, N.Y.  
National Pressure Cooker Co., Eau Claire, Wis.

## Seeders, Fresh Fruit

Elliott Mfg. Co., Fresno, Calif.

## Slicers

Boutell Mfg. Co., Rochester, N.Y.  
Food Machinery Corp., Anderson-Barngrover,  
Div., San Jose, Calif.  
F. B. Pease Co., Rochester, N.Y.  
Rollman Mfg. Co., Mt. Joy, Pa.

## Sodium Benzoate

Carus Chemical Co., Inc., La Salle, Ill.  
Heyden Chemical Corp., New York, N.Y.  
Hooker Electro Chemical Co., Niagara Falls,  
N.Y.  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Monsanto Chemical Co., St. Louis, Mo.  
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## Stoners, Cherry

Atlas Tool & Machine Co., Boston, Mass.  
Dunkley Co., Kalamazoo, Mich.  
Enterprise Mfg. Co. of Pa., Philadelphia, Pa.  
Hutley Mfg. Co., Brocton, N.Y.  
New Standard Corp., Mt. Joy, Pa.  
Rollman Mfg. Co., Mt. Joy, Pa.

## Stoners, Peach

Barr Bros. Co., Oakland, Calif.  
Dunkley Co., Kalamazoo, Mich.  
Rollman Mfg. Co., Mt. Joy, Pa.  
L. K. Vaughan, Woodland, Calif.

## Sulphur Dioxide

Braun-Knecht-Heimann-Co., San Francisco,  
Calif.  
E. I. du Pont de Nemours & Co., Inc., Gras-  
selli Chemicals Dept., Wilmington, Del.  
Virginia Smelting Co., West Norfolk, Va.

## Syphons

Hydraulic Press Mfg. Co., Mt. Gilead, Ohio

## Tanks

American Seitz Filter Corp., New York, N.Y.  
W. E. Caldwell Co., Inc., Louisville, Ky.  
A. B. Farquhar Co., Ltd., York, Pa.  
Food Machinery Corp., Anderson-Barngrover  
Div., San Jose, Calif.  
Hauser-Stander Tank Co., Cincinnati, Ohio  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.  
Pacific Lumber Co., San Francisco, Calif.  
Palmer Bros., Cos Cob, Conn.  
Scientific Filter Co., New York, N.Y.

## Thermometers

American Thermometer Co., St. Louis, Mo.  
Bristol Co., Waterbury, Conn.  
A. B. Farquhar Co., Ltd., York, Pa.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Moeller Instrument Co., Inc., Richmond Hill,  
New York, N.Y.  
Palmer Co., Cincinnati, Ohio  
Taylor Instrument Co., Rochester, N.Y.

## Vinegar Equipment

A. B. Farquhar Co., Ltd., York, Pa.  
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio  
Palmer Bros., Cos Cob, Conn.

## Walnut Hullers

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Michigan Fire & Marine Insurance Co., Detroit,  
Mich.  
National Security Insurance Co., Omaha, Nebr.  
New England Fire Insurance Co., Pittsfield,  
Mass.  
Philadelphia Fire & Marine Insurance Co.,  
Philadelphia, Pa.  
Piedmont Fire Insurance Co., Charlotte, N.C.  
Sentinel Fire Insurance Co., Springfield, Mass.  
Springfield Fire & Marine Ins. Co., Spring-  
field, Mass.  
World Fire & Marine Ins. Co., Hartford, Conn.

# NURSERY STOCK

## Fruit Trees

Ackerman Nursery, Bridgman, Mich.  
Allen's Nurseries & Seed House, Geneva, Ohio  
Andrews Nursery Co., Faribault, Minn.  
Armstrong Nurseries, Ontario, Calif.  
O. A. D. Baldwin Nursery, Bridgman, Mich.  
Barnes Bros. Nursery Co., Yalesville, Conn.  
Bay State Nurseries, Inc., North Abington, Mass.  
Benton County Nursery Co., Rogers, Ark.  
Bergtholdt Foothill Grown Trees, Newcastle, Calif.  
Bountiful Ridge Nurseries, Princess Anne, Md.  
Bradley Brothers, Carbondale, Ill.  
Bridgman Nursery Co., Bridgman, Mich.  
Buntings' Nurseries, Inc., Selbyville, Del.  
E. H. Burson Nursery, Clifton, N.Y.  
California Nursery Co., Niles, Calif.  
Call's Nurseries, Perry, Ohio  
Carlton Nursery Co., Carlton, Ore.  
Champion Nurseries, Perry, Ohio  
Chase Brothers Co., Rochester, N.Y.  
Chattanooga Nurseries, Chattanooga, Tenn.  
Cole Nursery Co., Painesville, Ohio  
Columbia & Okanogan Nursery Co., Wenatchee, Wash.

Davis Farm & Nursery, Anna, Ill.  
Dunham's Grand Mere Nurseries, Baroda, Mich.  
Emlong's Nursery, Stevensville, Mich.  
Fragaria Nurseries, Pulaski, N.Y.  
Fremont Nursery, Fremont, Ohio  
French Nurseries, Clyde, Ohio  
Fruitland Nursery Co., Augusta, Ga.  
Glen Bros., Inc., Rochester, N.Y.  
Glen St. Mary Nurseries Co., Glen St. Mary, Fla.

Grand Island Nurseries, Eustis, Fla.  
Greening Nursery Co., Monroe, Mich.  
Griffing Nurseries, Beaumont, Texas  
F. A. Guernsey & Co., Inc., Schoharie, N.Y.  
Hansen Nursery, Brookings, S.D.  
Harrisons' Nurseries, Berlin, Md.  
Hart's Nursery, Spencerville, Ind.

Hill Top Orchard & Nurseries, Hartford, Mich.  
Hillenmeyer Nurseries, Lexington, Ky.  
C. M. Hobbs & Sons, Inc., Bridgeport, Ind.  
Hood's Old Dominion Nurseries, Richmond, Va.  
Howard-Hickory Nurseries, Hickory, N.C.  
Ideal Grader & Nursery Co., Hood River, Ore.  
I. E. Ilgenfritz' Sons Co., Monroe, Mich.

Inter-State Nurseries, Hamburg, Iowa  
E. W. Jones Nursery Co., Woodlawn, Va.  
J. F. Jones Nurseries, Lancaster, Pa.  
R. M. Kellogg Co., Three Rivers, Mich.  
Kelly Bros. Nurseries, Danville, N.Y.  
Kridler Nurseries, Inc., Middlebury, Ind.

Lake's Shenandoah Nurseries, Shenandoah, Ia.  
Lindley Nurseries, Inc., Greensboro, N.C.  
Maloney Bros. Nursery Co., Danville, N.Y.  
Markham's Nursery, Xenia, Ill.

May Nursery Co., Yakima, Wash.  
Alden McNair Nurseries, Learned, Miss.  
Thomas B. Meehan Co., Dresher, Pa.  
Milton Nursery Co., Milton, Ore.

George A. Morse, Williamson, N.Y.  
Mount Arbor Nurseries, Shenandoah, Iowa  
Swain Nelson & Sons, Co., Glenview, Ill.  
Neosho Nurseries Co., Neosho, Mo.

New Jersey Peach Council, Princeton, N.J.  
Noble Nursery, Noble, Okla.

Nut Tree Nurseries, Downingtown, Pa.  
Parker Nursery & Orchard Co., Tecumseh, Okla.

Ramsel's Austin Nursery, Austin, Texas  
Rich & Sons Nursery, Hillsboro, Ore.  
W. N. Scarff's Sons, New Carlisle, Ohio

Smith Bros. Nursery Co., Concord, Ga.  
South Michigan Nursery, New Buffalo, Mich.  
Southern Nursery Co., Winchester, Tenn.

Spring Hill Nurseries, Tippecanoe City, Ohio  
F. C. Stahelin & Son, Bridgman, Mich.

Stark Bro's Nurseries & Orchards Co., Louisiana, Mo.

Storrs & Harrison, Painesville, Ohio  
Summit Nurseries, Stillwater, Minn.

Tingle Nursery Co., Pittsville, Md.  
E. W. Townsend Sons, Salisbury, Md.

Travis Bros. Nurseries, Riverdale, Ga.  
Vienna Nursery, Vienna, Ill.

Village Nurseries, Inc., Penfield, N.Y.  
Wathena Nurseries, Wathena, Kans.

Waynesboro Nurseries, Waynesboro, Va.  
T. B. West & Son, Perry, Ohio

West Hill Nurseries, Fredonia, N.Y.  
Willowbend Nursery, Perry, Ohio

Wolfe's Nursery, Stephenville, Tex.

## Fruit Trees, Dwarf

Kelly Bros. Nurseries, Danville, N.Y.  
Henry Leuthardt, Port Chester, N.Y.  
Maloney Bros. Nursery Co., Inc., Danville, N.Y.

W. N. Scarff's Sons, New Carlisle, Ohio  
Storrs & Harrison, Painesville, Ohio

T. B. West & Son, Perry, Ohio

JUNE, 1940

## Nut Trees

Armstrong Nurseries, Ontario, Calif.  
Bass Pecan Co., Lumberton, Miss.  
Bountiful Ridge Nurseries, Princess Anne, Md.  
Buntings' Nurseries, Inc., Selbyville, Del.  
California Nursery Co., Niles, Calif.  
Chase Bros. Co., Rochester, N.Y.  
Cole Nursery Co., Painesville, Ohio  
Columbia & Okanogan Nursery Co., Wenatchee, Wash.

French Nurseries, Clyde, Ohio  
Samuel H. Graham, Ithaca, N.Y.  
Griffing Nurseries, Beaumont, Texas  
W. Halbert, Oxford, N.Y.

Harrisons' Nurseries, Berlin, Md.  
Howard-Hickory Co., Hickory, N.C.  
E. W. Jones Nursery Co., Woodlawn, Va.  
J. F. Jones Nurseries, Lancaster, Pa.

Kelly Bros. Nurseries, Danville, N.Y.  
Markham's Nursery, Xenia, Ill.  
Thomas B. Meehan Co., Dresher, Pa.  
Michigan Nut Nursery, Union City, Mich.

Nut Tree Nurseries, Downingtown, Pa.  
W. N. Scarff's Sons, New Carlisle, Ohio  
Stark Bro's Nurseries & Orchards Co., Louisiana, Mo.

Storrs & Harrison, Painesville, Ohio  
Texas Pecan Nursery, Inc., Tyler, Texas  
Waynesboro Nurseries, Waynesboro, Va.

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Greening Nursery Co., Monroe, Mich.  
House of Gurney, Inc., Yankton, S.D.  
Knox Orchard & Nursery Co., Vincennes, Ind.  
Mount Arbor Nurseries, Shenandoah, Iowa  
A. Willis & Co., Ottawa, Kans.

## Seedlings

Gregory Bros., Brentwood, Calif.  
Independence Nurseries, Independence, Kans.  
E. W. Jones Nursery Co., Woodlawn, Va.  
Otto Katzenstein & Co., Atlanta, Ga.  
Mount Arbor Nurseries, Shenandoah, Iowa  
Shenandoah Nurseries, Shenandoah, Iowa  
J. H. Skinner & Co., Topeka, Kans.  
Wathena Nurseries, Wathena, Kans.

## Small Fruits and Grape Vines

Acme Berry Gardens, Chino, Calif.  
W. F. Allen Co., Salisbury, Md.  
Allen's Nurseries & Seed House, Geneva, Ohio  
Andrews Nursery Co., Faribault, Minn.  
Anna Strawberry Nursery, Anna, Ill.  
Armstrong Nurseries, Ontario, Calif.  
O. A. D. Baldwin Nursery, Bridgman, Mich.  
Barnes Bros. Nursery Co., Yalesville, Conn.  
V. Basham, Mountainburg, Ark.  
Benedict Rancho, El Monte, Calif.  
Benton County Nursery Co., Rogers, Ark.  
W. A. Bents Nurseries, Cresco, Iowa  
Bountiful Ridge Nurseries, Princess Anne, Md.  
Boysenberry Plantation, Lapeer, Mich.  
Fred Braden, Wayzata, Minn.  
Buntings' Nurseries, Inc., Selbyville, Del.  
California Nursery Co., Niles, Calif.  
Call's Nurseries, Perry, Ohio  
Champion Nurseries, Perry, Ohio  
Chase Bros. Co., Rochester, N.Y.  
Chattanooga Nurseries, Chattanooga, Tenn.  
Cole Nursery Co., Painesville, Ohio  
Columbia & Okanogan Nursery Co., Wenatchee, Wash.

Dunham's Grand Mere Nurseries, Baroda, Mich.

Emlong's Nursery, Stevensville, Mich.

Fish & Bond, Eugene, Ore.

French Nurseries, Clyde, Ohio

Fussell Brothers, Teachey, N.C.

Griffing Nurseries, Beaumont, Texas

F. A. Guernsey & Co., Inc., Schoharie, N.Y.

W. Halbert, Oxford, N.Y.

Carl A. Hansen Nursery, Brookings, S.D.

Harrisons' Nurseries, Berlin, Md.

Fred Hazelton, LeRoy, N.Y.

Hicks' Nurseries, Inc., Westbury, N.Y.

Hill Top Orchards & Nurseries, Hartford, Mich.

Hillenmeyer Nurseries, Lexington, Ky.

Howard-Hickory Co., Hickory, N.C.

I. E. Ilgenfritz' Sons Co., Monroe, Mich.

Inter-State Nurseries, Hamburg, Iowa

J. W. Jones & Son, Franklin, Va.

Thomas Kates Berry Farm, Cherryville, Pa.

Dr. Keefe's Blueberry Plantation, Grand Junction, Mich.

Keith Plant Nursery, Sawyer, Mich.

R. M. Kellogg Co., Three Rivers, Mich.

Kelly Bros. Nurseries, Danville, N.Y.

Knott's Berry Place, Buena Park, Calif.

Kridler Nurseries, Inc., Middlebury, Ind.

John Lightfoot, Birchwood, Tenn.

Maloney Bros. Nursery Co., Inc., Danville, N.Y.

Maple Bend Nursery, Perry, Ohio

Markham's Nursery, Xenia, Ill.

R. R. McUmber, Greenfield, Tenn.

J. E. Miller Grape Nursery, Naples, N.Y.

George A. Morse, Williamson, N.Y.

Perkins Bros., St. Paul, Minn.

E. W. Potter, Leslie, Mich.

Ramsey's Austin Nursery, Austin, Texas

Rancho Verdado, Mentone, Calif.

Rayner Bros., Salisbury, Md.

C. H. Rochelle, Kenton, Tenn.

W. N. Scarff's Sons, New Carlisle, Ohio

F. E. Schifferli & Son Nurseries, Fredonia, N.Y.

Shelby Plant Farms, Memphis, Tenn.

J. H. Shivers Plant Farms, Allen, Md.

South Michigan Nurs., New Buffalo, Mich.

Spring Hill Nurseries, Tippecanoe City, Ohio

F. C. Stahelin & Son, Bridgman, Mich.

Stark Bro's Nurseries & Orchards Co., Louisiana, Mo.

Storrs & Harrison, Painesville, Ohio

Ten Dyke's Blueberry Farm, Grand Junction, Mich.

E. W. Townsend Sons, Salisbury, Md.

Vienna Nursery, Vienna, Ill.

Village Nurseries, Inc., Penfield, N.Y.

Waller Brothers, Judsonia, Ark.

Waynesboro Nurseries, Waynesboro, Va.

West Hill Nurseries, Fredonia, N.Y.

T. B. West & Son, Perry, Ohio

Wolfe's Nursery, Stephenville, Texas

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United Motors Service, Inc., Detroit, Mich.  
Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

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Electric Storage Battery Co., Philadelphia, Pa.  
Fairbanks, Morse & Co., Chicago, Ill.  
Firestone Tire & Rubber Co., Akron, Ohio  
B. F. Goodrich Co., Akron, Ohio  
Goodyear Service, Akron, Ohio  
Graybar Electric Co., New York, N.Y.  
Philadelphia Storage Battery Co., Philadelphia, Pa.

Prest-O-Lite Storage Battery Co., Indianapolis, Ind.  
Universal Battery Co., Chicago, Ill.  
USL Battery Corp., Niagara Falls, N.Y.  
Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

Willard Storage Battery Co., Cleveland, Ohio

### Diesel Electric Plants

Witte Engine Works, Kansas City, Mo.

### Flashlights and Batteries

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Burgess Battery Co., Freeport, Ill.  
Delta Electric Co., Marion, Ind.  
National Carbon Co., New York, N.Y.  
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Winchester Repeating Arms Co., New Haven, Conn.

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Deleo Appliance Div., General Motors Sales Corp., Rochester, N.Y.  
Fairbanks, Morse & Co., Chicago, Ill.  
General Electric Co., Schenectady, N.Y.  
Kewanee Private Utilities Co., Kewanee, Ill.  
Kohler Electric Plants, Kohler Co., Kohler, Wis.  
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Briggs & Stratton Corp., Milwaukee, Wis.  
Century Electric Co., St. Louis, Mo.  
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Midwest Radio Corp., Cincinnati, Ohio  
Philadelphia Storage Battery Co., Philadelphia, Pa.  
RCA Mfg. Co., Inc., Camden, N.J.  
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Universal Battery Co., Chicago, Ill.  
Zenith Radio Corp., Chicago, Ill.

### Refrigeration, Household

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Fairbanks, Morse & Co., Chicago, Ill.  
Frigidaire Div., General Motors Sales Corp., Dayton, Ohio  
General Electric Co., Bridgeport, Conn.  
Nash-Kelvinator Corp., Detroit, Mich.  
Philco Refrigeration Corp., Philadelphia, Pa.  
Servel, Inc., Evansville, Ind.  
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Elgin Softener Corp., Elgin, Ill.  
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Goulds Pumps, Inc., Seneca Falls, N.Y.  
Kewanee Private Utilities Co., Kewanee, Ill.  
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H. H. Hunt & Son, Lansing, Mich.  
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August Lots Co., Boyd, Wis.  
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A. I. Root Co., Medina, Ohio  
Stover Apiaries, Mayhew, Miss.  
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Calvert Apiaries, Calvert, Ala.  
Central Louisiana Apiaries, Marksaville, La.  
Citronelle Bee Co., Inc., Citronelle, Ala.  
H. E. Coffey, Whitesett, Texas  
Cotton Belt Apiaries, Paris, Texas  
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G. B. Lewis Co., Watertown, Wis.  
Miller Bros., Whitesett, Texas  
W. E. Plant, Hattiesburg, Miss.  
The Puett Co., Hahira, Ga.  
Rapides Apiaries, Winnfield, La.  
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Fulton Bag & Cotton Mills, Atlanta, Ga.  
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J. L. May Co., New York, N.Y.  
A. B. Morse Co., St. Joseph, Mich.  
Reynolds & Reynolds Co., Dayton, Ohio  
United States Printing & Lithographing Co., Cincinnati, Ohio  
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George E. Cook, Washington, D.C.  
National Trade Mark Co., Washington, D.C.  
L. F. Randolph, Washington, D.C.  
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Billings & Spencer Co., Hartford, Conn.

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Bartlett Mfg. Co., Detroit, Mich.  
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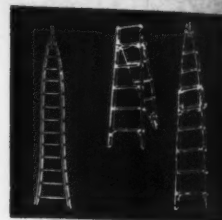
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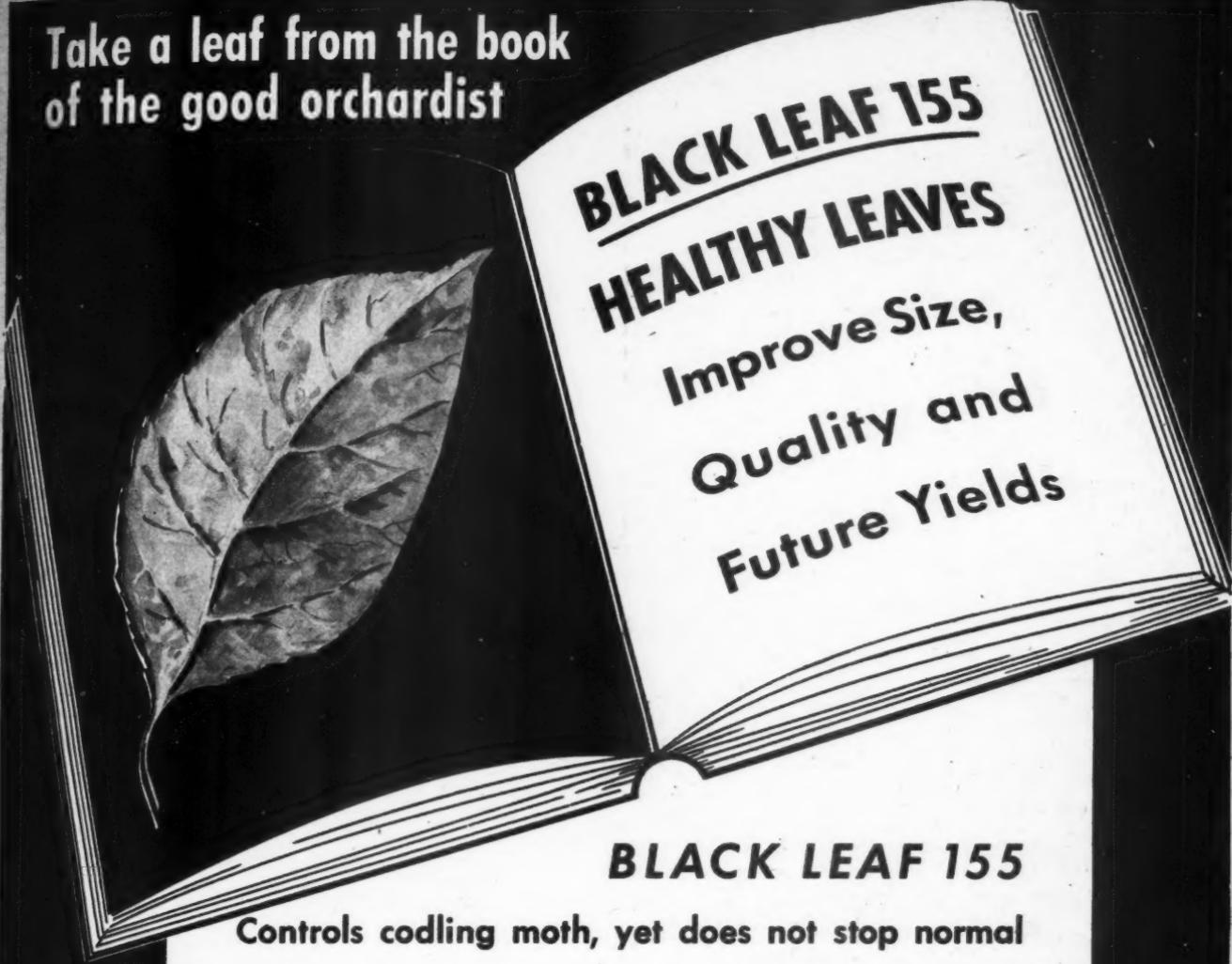
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CAVALIER**  
**\$13<sup>11</sup>**  
6.00-16  
Other sizes proportionately low

† Cash prices—subject to change without notice

**FRONT WHEEL  
TRACTOR TIRE**

**ONLY \$9<sup>45</sup>  
4.00-15 SIZE**

# LET GOODRICH CUT YOUR FARM COSTS